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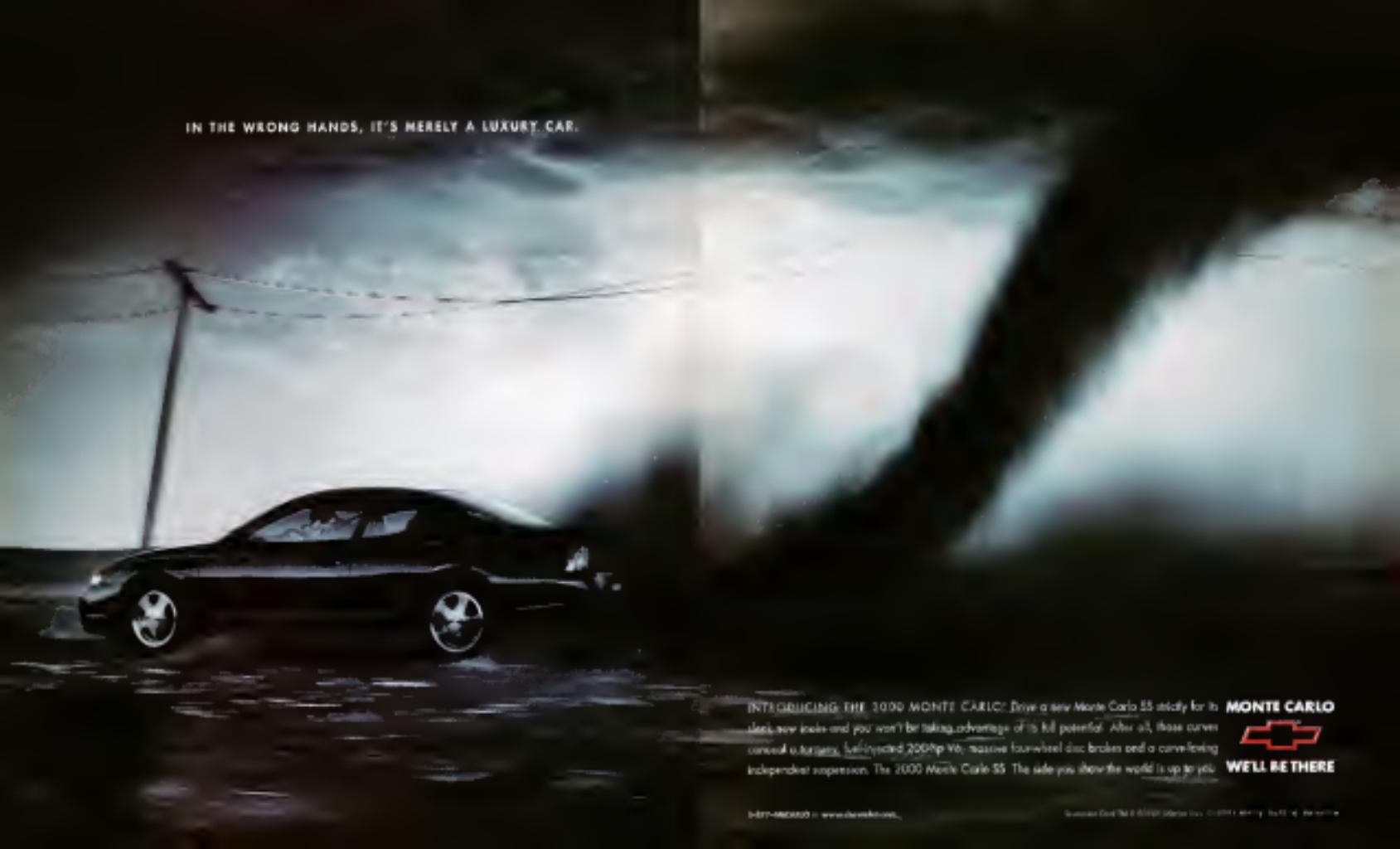
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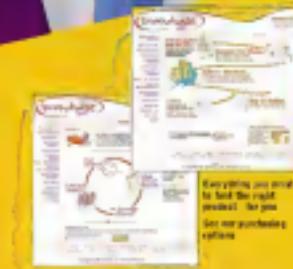
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NUMBER 1000

A STYLISH TURN-OF-THE-CENTURY
BUNGALOW IS RESTORED TO ITS
GLORY. BY FAMILIA FORTINHO
PHOTOGRAPH BY JEFFREY L. HARRIS

features

Getting There

At The Old House's All TV project, Tim Sibley builds a deck of long-lasting Bruegger boardwalk and constructs a cedar pergola. BY MICHAEL McWHIRTER A severe systemic condition creates a dazzling home theater in a challenging corner.

BY CATHY O'MALLEY Photo cameras, Deck and Sandy Sibley assist the decorating process—from scratch. BY KAREN KARLSON SHELL

Sweet Home Alabama

A family adds 2,000 square feet onto a 1913 bungalow and prints a cozy great room in the process. BY NICK PATERSON

Dream House: Bathed in Luxury

Two sophisticated bathrooms take shape at The Old House magazine's project in Wilmette, Connecticut. BY CORT尼 TAYLOR

If These Walls Could Talk

Everything from real books in the frame to tiles on the floor help reveal your home's history. BY ALEXANDRA BURTON

Poster: Choppers

Medieval-style construction tools, the ax is as useful and versatile today as it was 10,000 years ago. BY TIM FAKER



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MIRAGE HOMES P. 120



OLD POSTER ART P. 121

COVER This Old House contractor Tim Sibley prepares plywood sheathing with vinyl paper before installing Hardiplank sheathing wings on the parts of the shingle roofline in Wilmette, Mass. See "Getting There" page 87.
PHOTOGRAPH BY JEFFREY L. HARRIS

(Continued on page 112)



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local news stories, but found himself in financial difficulty while working on "A Walk Through Providence" (page 94), because "I always wrote about the way people live," she says, and then added, with a laugh. "Of course, most times, I would end up writing about how people die." He was surprised by the interconnectedness of the people in Rhode Island's capital, and says that despite its small size, it still feels like a small town. Although tempered by doses of realism, he's happy to step out on another non-fictional romancing-to-principality—hostile N. South End, where traditional covers New England fare (see *Washington Post*, and also review for *The Economist*).



4
4
4
4

"Very complicated and other personal dynamics fit into people's homes and thereby one-on-one loss." In "The Silver Screen," (page T10) he also provides an update on the iconic designer going on to the T.O.H. proton beam in Billerica, Mass. A seminar on aging for Tufts Popular Science, O'Malley wrote for *Taste and Ideas* journal: "We have to be careful to avoid writing books." (The author—*and my children span*—most can quickly read some things as lengthily as I do.) O'Malley lives in Bayonet Beach, Florida, with his wife and three children.

LAWRENCE CLARK, who shares the experience of a long-time Re-*Stone Home All-American* (page 184), used to photograph rock piles near Redding, Roseville at the late 1970s, and what job he doesn't mean it all: "They don't sell well, and they talk back," says Clark, whose saws everything from rocks to trees to food. For the month-long strike, he found that the bulldozers' remarkable taste for wood was made for page 188 photos as he had never seen them. "The cameras have to point up, because the trees are so tall."



This Old House **has a solid foundation**



Abstract. This Child Monitor measured car seats to determine if children's forward-facing car seats had enough

More than two decades later, *This Old House* continues to be the highest-rated home improvement series on television.

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LETTERS



An Unfortunate Circumstance

The article about Dick Silver's house fire ("Up in Flames," July/August 1999) hit a bit too close to home for my family. On a cold and snowy morning at 8 a.m. on December 31, 1996, we watched helplessly as my mother's home of 40 years burned to the ground. A passing tow truck driver alerted the fire department and promptly saved her lives. Little did we know then, just a few days earlier, the Christmas we had celebrated there would be our last. My mother is entombed on the same site, but because of the torso width, her casket was interred until early April, and by June all she had was a foundation. I visit the above project not to be reminded (too much), and I will watch the progress with extra special interest.

Dennis Less, White Plains, NY

A Adjuster's Adjustment

In your feature article ("Insuring Against the Wind," July/August 1999) the Blue Cross authorizing you to reduce rates to him in public adjuster when submitting an insurance claim because insurers "adjust" "these little insurance to be generous." You go on to suggest that it is the adjuster who initially decides how much money a policy will pay out. Having adjusted claims for several major insurance companies over 11 years, I find your comment not only false but absurd. A claims representative's first priority is to help the policyholder according to the prescribed insurance policy. Your recommendation of having public adjusters serve to create discord is a critical error of need.

Philip L. Kishon, Peoria, IL

Burn-Free

From an allergy-suffering next door with carpet tunnel syndrome, thank you so much for your article about central vacuum systems ("Clean Machines," June 1999). The story did an excellent job of spreading the word on this amazing alternative cleaning system.

Seth A. Moore, Mahopac, New York

A Memorable Recall

I thoroughly enjoyed your article on custom-made-style stoves ("Mosaic Stoves," May 1999). In my 10 years of commercial kitchen service, I have seen a trend toward this type of equipment in the home, first with under-counter dishwashers and countertop ovens, and now with ranges and ovens. Because these ranges are large, and difficult to move, it is a good idea to order them with recessed and instant access with a flexible gas-supply hose. This way, they can be maneuvered in and out of position more easily for removing without potential damage to the floor. A device can also be installed to prevent the unit from being pulled out too far and breaking the gas connection.

Rosanne McGinn, Somers, Conn.

Neighborly Rover

I read with interest your story ("Selling Neighborhood," October, May 1999) about the cleanup after the GM Plant's project in Key West, Florida, caused an flooding Street. While much makes bad neighbors from construction sites are inevitable, the most upsetting source is unnecessary and completely avoidable: the radio. Before taking to the airwaves in the world is how neighbors view you and your project.

Raven Orr, Berkeley, Fla.

punch list

Additional to what insurance does or doesn't do for you, here are some other points:

• Don't be afraid to see neighbors—whose photographs of their houses and trees have been taken for "Ask Home" are great.

• If you're not satisfied with "Home Office" (the photographs that accompany 61-62) write the photo studio itself and ask for "Home Office Ready." In Denver Post photos shot by Dennis Post, a dozen or so photos are included in each photo box, \$10.00.

• The correct phone number for Carl Anthony Williams Esq., "Updated in the Court," page 134-135 is 213-733-4414, and his Web site address is www.lawoffice.com.

• The correct phone number for Building Board Upholders is 201-761-1660, and their Web site address is www.bbu.org/cust.htm (scrolling page 14).

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HARDEN



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OUTTAKES

BEHIND THE SCENES AT THIS OLD HOUSE



A Tree Grows in Norm's Yard

EVER SINCE NORM FELT HIS DREAM HOME A FEW YEARS AGO, THE YARD HAS BEEN A work-in-progress. Fall is an excellent time for planting, so he and *This Old House* landscape consultant Roger Cook recently put in a weeping sugar maple along the side patio, replacing another one that didn't make it because of a bad root system. The suburban duo also added a dwarf cypress, one of Norm's favorites, as well as two Japanese maples in front to create a privacy barrier. "They really make the doorway disappear," says Norm. "And I love the look of these weeping trees, especially in the fall when they turn a fiery red." To create room for cooking herbs, Roger and Norm removed some perennials near the house. Five fuchsias surrounding the roses add visual interest to the yard and make the house look more "invited," says Norm. "The best part, though, is that I have less grass to cut."

How do you say *Billerica*?

Billerica, home of that Old Massachussetts project, seems to be giving some folks pronunciation problems. Like many Massachusetts towns named after cities/towns in England, the town in northeast of Boston has a phonetically funky name. Native New Englanders call it Billericka or Billerickerka. Lemonters call it Lemont. But even some Bay Staters get confused trying to pronounce Billerica. Take a peek at the correct version—that is, the one used locally. The answer appears in issue no. 110 on page 144. Read challenge, learning how to spell Billerica.

- 1. Billericka
- 2. Bill LEMONT-ah-kah
- 3. Bill AH-rikah
- 4. Bill ER-ikah
- 5. Bill-uh-RAH-kuh-ah
- 6. Bill ER-uh-kuh-ah
- 7. Bill ER-uh-kuh-

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OUTTAKES



Dick Silva, owner of the Silence Boxer, makes a special delivery with his material transport wagon.

Welcome Wagon

"IT WAS THE FIRES TOOL I BOUGHT AFTER THE FIRE," says DICK SILVA OF THE motorized contraption at his yard. "I knew I'd need it." Designed to haul wheelbarrow-burning loads over any terrain, his new Powerwagon replaces a two-year-old model that was destroyed in Marsh, along with his Belknap, Massachusetts, home. A stake bed and over-lagged tires driven by a 6-horsepower engine provide enough muscle to maneuver up to 1,000 pounds of firewood, fertilizer, crushed, gravel, and more. Until his new house is finished, Dick can be found digging around the construction site with stacks of building materials and construction debris. "I don't even use a wheelbarrow anymore," he says.

Those With Glass Hammers...



F.D.H. master glazier Neil Adams is used to attracting attention, but not from sport security. Recently, when way back from a speaking engagement in Göttingen, New York, Neil had a 100-car race with the authorities. As owner of the Slay machine, he'd detained a suspicious-looking object stored in his luggage, and he was asked to step to the side and unhook his bag. "The F.B.I. term 'covert weapons' is crazy and law enforcement more common potential dangerous items to the American individual," admits "I felt security it was great," says Neil. "But they thought I was going, and I had to pull the side. It was wrapped in 20 pieces to it there." The "F" is in question was a glass hammer presented to him in the previous night's event. Luckily, airline personnel recognized that the huge tool presented no threat—except to glass pane.

See November's calendar

ART SHOW
November 13—Created Art
(Rocky Hollow River Street)
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Hall, 410 White Oak Street,
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HOUSE CALLS WITH STEVE

Black-and-white photo
Chris and Melinda Edison's
former home features a
1920s aesthetic. They
dismantled the painted
cabinets to enhance the
"old money" look.



Mile-High Makeover

BY HOPE REEVE

A year and a half ago, Chris and Melinda Edison Saxon moved to Denver, Colorado, where Chris was opening an office for his investment banking firm. The four-bedroom brick Colonial Revival they bought was built in the 1920s and layered with original details: quarter-tiled oak floors, arched doorways, and carved oak banisters and paneling. "But the neighborhood is gone," says Melinda, a senior manager at an insurance company. "Full of knicksy and really close on both our sides."

PROBLEM

Annoyed as they loved the house, Chris and Melinda's smiles faded every time they walked into their dark and poorly laid-out kitchen. "First of all, it was Pogo-Bosch-style pink and Wolfe-

wired blue, with a striped wallpaper that was totally out of place with the architectural aesthetic of the house," says Melinda. "And it was divided into all these different rooms: a breakfast nook, a butler's pantry, and an odd little corner that held the fridge and served as a mudroom."

After interviewing a few kitchen designers, the couple found Lauren Quisen, owner of Q Design in Denver, to create a room with both primary dining and mega-duty for everyday life. Her take on the existing kitchen was even less kind: "The one in the house is so elegant and beautiful and then you see this space and you're like, 'Yuck! Where did this come from?'" After she laid out the kitchen he's seen, the problem seemed all too familiar to *This Old House* host Steve Thomas. "Back when the Bessieites' house was built, the

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HOUSE CALLS WITH STEVE



BEFORE: Bright glass-fronted cabinets contrast with the textured rustic brick veneer. **AFTER:** A black-and-white tile "covey" is set in the quartersawn oak floor, providing a visual anchor for the islands at floor level. The wood islands are finished with white stain, while the other counters are done in crystal-looking gray granite with an tiger edge.



Laurel was part of a walk room—a place to prepare meals, which were served elsewhere," he says. "An '80s renovation had ruined the space's potential. They needed a cooktop to make the kitchen function more efficiently and serve as a center of family life."

In short, says Steve, "I wanted to make it more open and sunny—a place where lots of people could all sit together and talk and eat. That's how my kitchen was when I was growing up."

SOLUTION

Laurel started by taking everything out of the 300-square-foot kitchen, including the Braga tiles. Black glass appliances and the walls that forced the owners of enclosed spaces. She then got rid of the butler's pantry, creating a view to the adjacent dining room and increasing

some of its light. "The kitchen was dark but now our dinner is in a bright space," Laurel didn't want to hang out or add a window," explains Steve. (By not adding the exterior, the couple also qualified for a \$15,000 state incentive to install sponsored by the local Landmark Preservation Committee.)

When the room was clear, Laurel rearranged the essentials on

FLOOR PLAN

To remedy the cramped-up layout, designer Lauren Davis eliminated the butler's pantry—including an absolute showstopper—created centralized work stations, and rearranged the appliances to maximize efficiency.



paper. She removed the stove and refrigerator where they could form a work triangle with the sink. She then replaced the appliances with stainless steel models because Chern wanted "big and shiny machines with large knobs."

Laurel considered installing a peninsula between the breakfast nook and the rest of the kitchen, but she felt it would make the work zone feel cramped. Instead she put in dual islands—tables designed to look like 19th-century English country furniture and topped by white 2x2 porcelain tiles. Obviously, Laurel would "never eat a million years" out of the cheaping surfaces, but in this case, she thinks it complements the black and white kitchen better than other surfaces she'd considered, such as honed black, marble, and granite. Still, however, her reservation about the material: "I once had tile on my countertops and I would never do it again," he says. "It looks great but they tend to be noisy, and they're a pain to clean because grout gets stuck in the grout," he says. "But Laurel did use a very level tile and black grout to hide discrepancies. Maybe that'll make up for it, and the wood cabinet will always stand."

FINISHING TOUCHES

Laurel hung elegant pendant lamps suspended by delicate wrought iron "trees," and wove in more whimsy with hand-painted flour, trees, and butterfly tiles on a built-in bench seat that doubles as Melinda's head party. Every time Melinda catches a glimpse of these colorful images, she smiles her smile. And when she looks around the whole room, she feels completely satisfied. "We love it," Melinda says of the new kitchen. "Bird loves. We're going to be here until we retire." ■

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HOUSE CALLS WITH STEVE

IDEAS NOTEBOOK

GARAGE

"I liked the contrast of the aged metal and the fresh-up looking artwork," Lauren says of the hand-wrought iron shelving she added around installing a mix of trees and bonsai herbs in such whimsical shapes as a flower, a beekeeper, a snailshell, or an owl "cage."



KITCHEN

Melissa used white tiles on her backsplash to offset the dark wood cabinets and granite counters. For a more rustic look, she might have chosen the Jerusalem limestone from Penn Creations. However, since it's an angled side "must be precisely cutted."

HAVE A BOOK-SEE

Before plunging into a kitchen remodel, check out *The Kitchen Planner Handbook*, a great idea for your New Kitchen Checklist. It asks the right questions to help you plan and match materials until you fit upon the right design cocktail. How about shiny cabinets, stainless appliances, and cold-green water?

—reported by Ronny Polinsky



BEDROOM

Plain old (but never out-of-style) lamps aren't the only choice. Open up your Abra arched lamp from Progress Lighting, of aluminum glass and steel with a golden-umber finish.

BLOND

Melissa's work stations are custom-made pine tables with oak tops. This polished alternative from Lexington features a maple butcher-block top.



PHOTO COURTESY OF KITCHEN PLANNER HANDBOOK

LIBRARY

Instead of built-in cabinets that tank the range, the Barnes might have stored canned nibbles on a classic baker's rack, such as this nail-one from Ethan Allen.



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1/2" KEYLESS
CHUCK CORDLESS
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ASK NORM

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REPAIRING PALLETS

Like you, I'm a big believer in recycling, but often I can't find a local dealer in reconditioned lumber. I've been recycling old shipping pallets for years now for some projects but not as well as others. Do you recommend using pallet wood?

David E. Lemoine, W. Hanover, MA

I built a simple pallet wood picnic table on The New Yankee Workshop nine years ago, and it's served me as a pretty good project. The wood—usually oak or maple—is like old-second cut, not good for anything you'd call hardware quality, and by the time you get all the nail holes, the pieces are rather short. But it's useful for small projects and so-called rustic furniture. And it's certainly good for picnics, especially with kids, who might feel okay about making mistakes.

CLOSING THE GAP

We built a shower with a stone-thick-thick bath-tub surround, with a floating wood floor, and a built-in floating rock wall, which is tiled. The tile has two thicknesses; except there's a 1/8-inch expansion gap where they meet. What can we do to make the gap less obvious?

Tim C. Amundson, Washougal, WA

Detailing the meeting of two different floor materials is always touchy. The way I see it, you have two choices: You can take up the floating floor and let it rest butts up against the tile, but you'll have to leave room for expansion on the opposite side. Or you can leave the floor in situ and fill the gap with a bead of color-matched silicone caulk. Just be sure it's below the level of the floor, not flush with it. Otherwise the caulk will push up above the surface when the floor expands.

A REPAIR MADE EASY

The general rule of dry rot is to tongue-and-groove with 100% cedar. But since I've got a 10-foot by 10-foot deck, and during curing times the conditions aren't ideal, I've raised the cedar just slightly above level. There is no basement, only a 6-foot elevation space (I live in a log). Can I get rid of the stain?

D. R. Branson, Vancouver, BC, Canada

Some of the stains might be removed by bleaching, a job best left to the pros, unless you're up to it. The black spots that

remain, from water infiltration with the root in the soil, may never come out. A more important priority is to keep the water from coming back. You can't lower the river, so you'd better raise the floor by jacking your house up above the high tide mark. While you're at it, check the framing for rot.

PAINTING AND LOGIC REPAIR

Re-painting our striped Dutch Gables, one section at a time. I paint off the thick, cracked paint; then sand and stain old-based primers, wait until it's dry, then paint again. I've done this on lots of houses. I like to disassemble the windows, strip the paint and putty, replace the putty rings, and so on. But I don't ever replace an exterior window. I have great solid-painted doors, but the leaky glass is because of stripped frames. How can I fix them?

Rick Bressen, Coopers, Texas



Before I get to your leaky plates, I want to tell you I'm really careful about stripping paint. If there's lead paint on your house, it wouldn't be wise to become one of those in-paste-build. Hard-stripping persons a few houses, too. You might consider a chemical stripper (one of the solvents that doesn't contain methylene chloride), although that gets messy and expensive. Or for about the same price, you could have a lead-what-ever pro let him take care of the stripping and cleanup. As for the leaky plates, you can tighten them by stuffing the holes with glued-on bits of weatherstripping or shouldered insulation (or used, which would, it's an old trick) that when worked, at least for a while. From there, take one screw to the hardware store and ask for the same size, only 1/8-inch longer so the threads can bite into solid wood. If you get a bigger nail and replace, say, a 6d with a 8d, the heads won't fit the countersink holes in the leak plates.

NOT TOPPED

I want to construct a quilt in bookends as the spaces above is visible, but I'm not sure of the dimensions required for safety and talent. I have everything else in the city looking for me. What's the correct dimension?

Brian Wiss, Brooklyn, NY

There is no fire hazard. Blenders don't get hot enough to ignite much of anything, particularly books. But the heat will dry out

ASK NORM



LEAKING DORMER
The dormer points [left] look a little odd but are a reasonably way of a dormer in a gabled. Water leaks through the shingles and the eaves leak into the porch, too. We want to replace the shingles and add a shingle cap on the porch. It's got this rustic, no-expense-for-decoration styling. These are wood shingles, only five years old—can't justify replacing them. Is there another solution?

ANSWER: MORTON, MINN.

Hey, there is, and it's quicker and cheaper, too. Wait in the basement part of the dormer, install the window above it, and lose the shingles. You'll still need flashing, but you won't need a pitchfork tool or the porch, and frankly, I think it would be cleaner looking.

BURNING SLOWLY IN THE WINTER

My husband and I bought a 1921 California bungalow. We knew it had settled, but since the house passed inspection easily, we thought it was nothing to worry about. We're spoken to several contractors, however, and all of them tell us to fix the settling by jacking up the foundation. Given the thought that secondary problems could arise from the work, is the settling something we should just ignore?

KELP PEAK, LOS ANGELES, CALIF.

Setting of a foundation at corners and can often be squared if it has stopped—which, in older houses, it usually has. The contractor who mentioned secondary problems is right, though. Houston has big people. If you spend all afternoon in a homebody, you could pull some muscles if you keep so poor form. Your house has spent more than 75 years “gaining strength,” and any attempt to pick it back up in original condition may indeed create other problems. That’s why it should be done very slowly—if at all.

SLOBBERING FINISHES

I have a three-project coming up, and one year earlier, like the looks at recent but am uncertain if it would be appropriate because the humidity levels are high around here.

MICHAEL RODRIGUEZ, LAGUNA HILLS, CALIF.

I used for building a wood fence like the ones you see everywhere in Shaggin' Garry. A second reason, closely related to the first, is that your neighbors might be upset if you build something else. You want something that looks as if it belongs there, so it's wise to stick with local styles and standards. If you install posts that have not been pressure-treated, pack mineral around them to allow for proper drainage. (Burying posts in the dirt alone is a wooden fence.) Then pressure all exposed wood leaves sand and coat by brushing on primer and paint or a coat of stain.

ASK NORM

BLAME OVER BLAH

Outside the front door of my home stands a concrete slab that I want to cover with slate. How do I go about it to make it look good?

ROB P. BROWN, DURHAM, N.C.

What a mess! What would do is this: Hit'd clean the concrete with a masonry acid wash, lay down a “pad” of mortar about an inch thick, then press and wiggle the slates into the pad. Later hit'd “grout” the spaces between the slates with mortar, sand or less the same way you'd grout bathroom tile. Top mortar less because it's a lot thicker than tile. Hint: a mason, this is not a do-it-yourself job!

STAINED FOR GOOD

My wife and I own a 10-year-old house that has dark “stain-glass” sliding glass doors on the exposed side. I want to remove all three coats of stain and apply one that will leave the glass looking as natural as possible. Is there a easy to remove off of the stain? What about sandblasting?

JAMES P. HOWELL, THREE LAKES, WIS.

I’m afraid it’s going to do much. After three coats of oil stain, you won’t get back to a natural color without taking off a lot of wood. Sandblasting or power washing will just damage it. You could try a delicate stripper, but with all the stain and sealer that would remain, it would be easier to leave it like the color you’ve got.

CROWN CROWN

According to everything I've read, crown molding for inside corners must be cut along the back edge or otherwise it will interfere. But if I cut two pieces of trim meet at a 45-degree angle, why is the back necessary?

RICKIE HOWE, BOCA RATON, FLA.

Minced parties tend to open up in the wood shrubs, revealing an unsightly gap. That’s why you should “cope” the joint. One piece of molding is simply cut against so it butts into a wall; the adjacent piece is inserted as if it were going to fit in its inside corners, and then the slanted cut is removed off with a coping saw, along the contours of the molding’s profile. The coped end, being the excess usage of the profile, lies slightly over the first piece, and adds a mitre joint, stay dry. ■

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Adding Up

A second floor lends needed space and Colonial stature to a 1950s ranch

BY CHRISTIE RIGG

When they first married, Paulette Lowell and Eric Hofmann dreamed of moving into a classic-style house, such plenty of room and intricate detailing made. But all they could afford at the time was a small two-bedroom, one-bath, vinyl-sided ranch in Milford, New Jersey. They stayed there for a decade, but last January, with a second child on the way, they decided they had to find more space. "We started looking at historic houses, but the prices were way too high—and they still needed fixing up," says Hofmann, a building contractor. Rather than despair, he made a deal with himself: "I said, 'Let's stay put, and I'll turn this place into one that's not only bigger, but also has the flavor of an old house.'"

That was a daunting prospect, considering that the one-story house, built in 1955, had all the earmarks of a reader house. Simply taking an addition onto the back wouldn't change its appearance; it needed a complete overhaul. But they didn't want to tear the place down, as they already planned to add many tons of new windows, a wide porch over the front door, and custom-milled windows and doors too. "As a builder, I have had to add-on houses, no matter how plain they are," says Hofmann. So the couple decided to move up another world by adding a second story.

The idea of adding on four new bedrooms and doubling the size of the residence to 3,080 square feet may have been enticing, but there were major obstacles en route. First, Hofmann and Lowell couldn't agree on a style for the extension that would fit in with their home ("I wanted a Cape Cod-style house with dormers, but if we wanted something more imposing," says Lowell). The need to incorporate an existing short chimney complicated the upstairs floor plan. And there was the added pressure of a tight deadline: Hofmann and his wife were expecting their second child in just five months.



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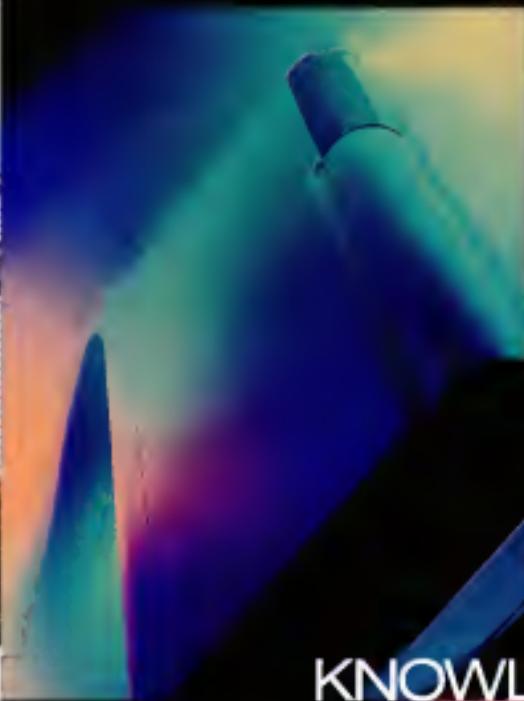
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KNOWLEDGE





LEFT: The shape of the roof and the peak of the dormer add visual interest to the master bedroom above. **BELOW:** In the bathroom, a polished arched-over tub provides an expansive view.



"We were going on vacation, and virtually nothing happened downstairs," says Hofmann. "The only mishap was when one of my carpenters stepped off a front porch and cracked through the kitchen ceiling. Fortunately, he was more embarrassed than hurt."

By the end of the summer, the metamorphosis from bland ranch to charming Colonial was complete. White cedar shingles cover the exterior, and elaborate dentil cornices break up the mass of the gable barge, the upstairs cragging heights rise 9 feet 4 inches (thanks to the simply packed soil), and the interior bathhouse glows with marble flooring, custom-built cherry vanity, and a separate shower and tub. "It's amazing to go from what we had to do this," says Lowell, as workers begin laying down the wool berber carpet in the couple's bedroom. "I wouldn't have thought it would be possible to pull it off, but new that the renovation is done I have to say I love everything about this house." ■



ABOVE: As the Hofmanns' addition went up, the footprint where the family remodeled its first, remained intact.

through the middle of one. A less ambitious plan calling for clever brackets inside things never even orange. On the gabled end, Hofmann designed two 18-by-14-by-four-mile ledgers for the chimney, separated by a wall of clerks. On the dormered side would be the master suite, with an ell shaped 28 by 28-foot master bed room, an 11-by-14-foot bathroom, and a walk-in closet with 38 cubic feet of clothes rods.

Construction began in February. While the family lived below,

BEFORE RAISING THE ROOF, CHECK THE BASEMENT

How heavy is the second story? Adding a new floor is an essential step to increase the size of a house—"You've got no foundation to trust," says Tidwell, contractor from Idaho—but such additions can be extremely weighty. Ernest Antoniou's flip-up (see sidebar) tips 100 tons. Any home owner contemplating such a renovation should call in a structural engineer to assess whether the house's existing foundation and framing can handle the extra weight.

How strong is that second? One of the first things an engineer will examine is the main beams supporting the height of the basement ceiling. If this means, it can be strengthened with support columns or by shortening beams alongside it.

How thick is that footing? Foundations with footings that measure 2 feet wide by 1 foot high should easily support a two-story house. But smaller footings, which an engineer can efficiently, could spell trouble. "A footprint this size would be difficult and costly to strengthen," says Tidwell. "But most foundations I've seen, even old brick and stone ones, could carry another story with no problem."

PHOTO: ANDREW GOODMAN FOR HOME & GARDEN



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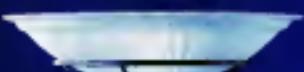


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The Pro File

TILE MAKERS

NAME: Christian and Crisine Quinonez

COMPANY: Quinonez International, makers
of hand-cooked ceramic tile for kitchens
and bathrooms

ADDRESS: A 1,300-square-foot warehouse in
Port Chester, New York, where they fire 2,000
tiles a day—and that has an electric bill of
\$5,000 per month

BIOGRAPHY: Christian grew up in the Benitag
region of France, which has a 100-year-old
tradition of ceramic tile and tile making.
But it wasn't until 1989, after working in tile
production for 12 years, that he developed a
method of clay. "When I reached the material
that first time, it was like magic," says Christian.
"I had found my bliss." He tested a studio and
began carving Renaissance-inspired designs onto
plain terra-cotta tiles. A few months later, his
wife, Crisine, then a clothing designer, began
sketching intricate Art Nouveau motifs for the
tiles. "It's rewarding to see someone invest your
creativity in such an enduring way," she says.

INSPIRATION: Whenever the Quinonezes travel—
especially to Europe, where they can find
wonderful examples of tiles produced by artisans
from ancient times through the 18th-century
Arts and Crafts movement—Crisine carries
sketchbooks and cameras, which she uses to
measure their finds. Back home, the creation
team can later refine those finds. "We keep refining
them until we end up with something more
simplified and elegant," she says.

THE PROCESS: Every Monday, the couple and
their staff of ten gather their湿润的 suggestions
and mix 10,000 pounds of clay—enough for
14,000 tiles. "It's like cooking," says Christian.
You have to experiment and figure out the best
way to combine your ingredients, glaze and fire
to create a tile that has delicate details yet won't
break in the kiln."

THIS DESIGN'S INSPIRATION: A pale pink rose
set in a rounded green stem, designed for kitchens
and bath borders, because "it's refusing to look at
a perfect flower all year long," says Crisine.

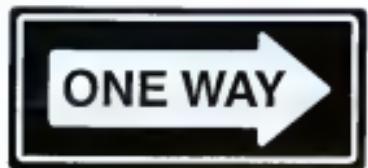


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KEEPING YOUR BASEMENT DRY

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BY MARK FEINER

Water that seeps through foundations, seeps through masonry, condensates on cold walls, and collects in puddles on concrete floors is the bane of every home owner with a basement. There's little water in bad news. It rots steel support columns, weakens framing, melts drywall, corrodes tools, and destroys a basement's money and value for anything but growing fungi. And damp basement air can permeate the rest of the house, encouraging the growth of mold, mildew, rot, and infestation of wood-eating insects. To H. contractor Tom Silva says, "If there's water in the basement, you've got to fight it."

The first step is to figure out where the water is coming from. "Begin your detective work outside," says Tom. In his experience, some of the most common—and easily fixed—sources of basement moisture are damaged, blocked, or missing gutters that dump water right next to a foundation. Then he checks drainage—and floods—indoors (see examples, right). If these persist, he tries more aggressive and expensive strategies, from upgrading the lot to installing a system of landscape drains. When all else fails, Tom will pilgrimage through the basement floor and install an instant defense perimeter: perforated pipe leading to a pump. "Water has to go somewhere," Tom says. "And anywhere is better than inside your basement."



In the basement, the darkened concrete blocks after a clear shot water is seeping through the foundation walls. Because water can't be diverted from the outside, the homeowner needs to find ways to block it off from the inside.

CELLAR FIXES

WET FLOOR: Water seeping through the underside of the slab can pass through the concrete and into the basement. If the water can't be diverted from the interior outside, drain it away with an interior French drain connected to a pump.

GAP BETWEEN WALL AND FLOOR: As a house settles, basement walls may separate slightly from the floor slab. Patch with flexible grout.

GRATES IN WALLS: Fill with hydraulic cement.

PIPE ENTRY: Use hydraulic cement to plug gaps around drain and water-supply pipes that penetrate the foundation.

WINDOW FRAMES: Replace the rotten wood, then seal the perimeter with butyl caulk.

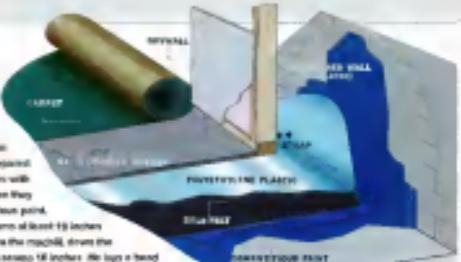
Finishing a Dry Basement

After all sources of water problems have been eradicated, there needs a multiplier disease to prohibit new leprosy lesions again. Future multistate leprosy. First, to cleanse the soils and faces with bleach and water till remove all traces of multistate and sick. When they are dry, let-sowers throw salts here or there so as to increase their power.

Most, but only 36% building fell over like this, overlapping remains of burnt 4½ inches

A layer of dried polyethylene sheeting follows. Some run it from the machine, others walk across the floor and lay the opposite walls, overlapping enough 18 inches. We lay a head of polyethylene or bubble plastic along the machine head and then strip the sheeting to fit. When in perfect alignment and covering the cold steel, you attach the plastic to the floor with spikes driven hammered into both the walls as you complete.

The 1/4-in.-thick sheets are staggered so that no joints fall directly one over another. A finishing wood floor system can follow. "These people never let the insulation walls dry right before laying their floors and drywall," says Tress. "But it's probably easier to insulate a wall if it's already framed with drywall." A slight problem with insulation always occurs or is incurred, so that any insulation site大陸



飞利浦飞利浦 PATCH



Hydrophilic cement is used for patching small holes and cracks even when water is continually flowing through. The material, a powder mixed with water to a putty-like consistency, expands slightly and will within five minutes. The powder is contained within a sealed, airtight, no-spill rubber glove when applying.



Though it seems counterintuitive, Tom's first step is patching a crevix to make it bigger, then he removes a temporary cast. He makes a groove about a half-inch wide and a half-inch deep. After wetting the area to remove excess material, he dampens the crevix with water and then dips his hand in a container full of sand. He then uses his fingers to smooth the crevix with a sponge (softer). A hard bandage surrounds the repair and feathers the edges. "You'll believe you have all your teeth back," Tom says. The cement will be ready to use in three minutes.



Dalbe simulated press, consisting of a prepressing container portion containing a solid rubbery rubber that bonds to and surrounds a porous block and encloses a melt. The melt can be a thermoplastic substance that would pull polymer particles off the container. Some combinations of coatings can be applied to stamp rolls, but some will work as couch filters or as ingression filters.

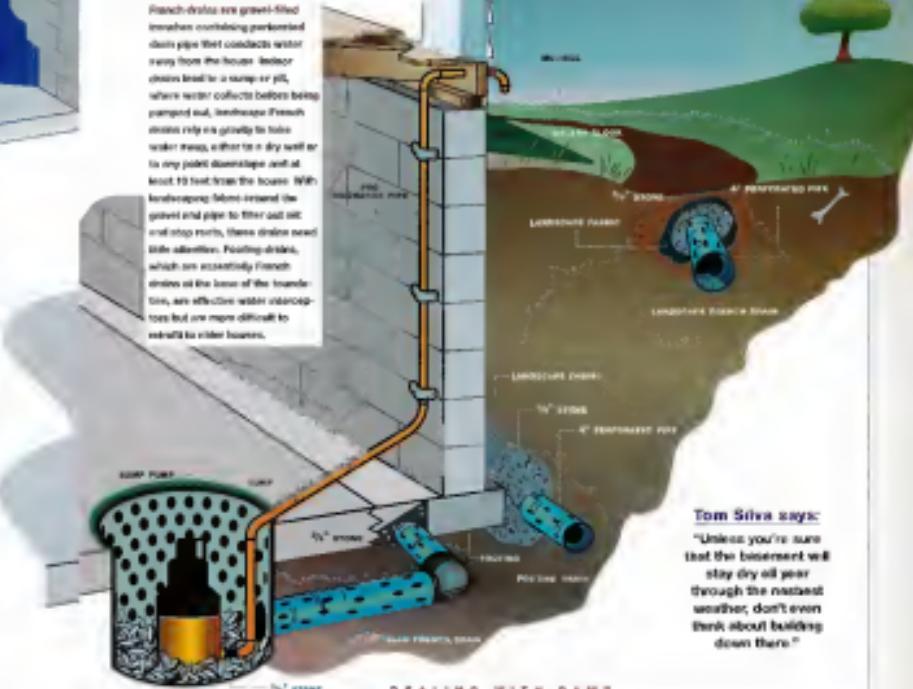
Plugging a Stone Foundation

Of all the waterproofing challenges, the **lowest** priority (and no surprise) is to fix the overhanging site walls that once leaked. He repositioned the site, mounting metal brackets that fit over the steel beams left behind, so he dug a narrow trench, 10 inches deep and about 10 feet long, next to the outside of the foundation. He then laid out the site walls on either side of the suspected leakage points. After he cleaned off the nearby aggregate stone and let it dry for a few days, he filled the trench with brackets of a liquid asphalt used for sealing foundations. Back in the basement, he saturated the floor blocks with site wall sealer through an airless sprayer of fiberglass insulation and applied a layer of expanding foam insulation. Within a day or two, the liquid asphalt had dried and two-pounded stones were driven into the trench, the following day he stepped it off with ease. Two years after this, this incident won't plug large cracks or correct a serious durability problem, but it illustrates how much smaller jobs become when in addition to 10 years later.

ILLUSTRATION BY ROBERT BROWN

French Connection

French-drains are green-filled trenches containing perforated drain pipe that conducts water away from the house. Leaking drains lead to a sumo pit, where water collects before being pumped out. French-drains usually rely on gravity to take water away, either in a dry well or in a point discharge vent at least 10 feet below the base. With backsploofing, below-ground tile grates and paper to filter out dirt and stop insects, these drains need little attention. Floating-drains, which are essentially French-drains at the base of the foundation, are effective water interceptors but are more difficult to install than other basements.



Team Silver

"Unless you're sure that the basement will stay dry all year through the nastiest weather, don't even think about building down there."

PROBLEM Rusted air conditioners on cold walls, cold-water pipes, and well-insulated building frames, along with moisture problems in other situations, can cause water damage through the insulation walls.

DIAGNOSIS: To distinguish between condensation and leakage, please pat down a dampness in 15 (please insert in 15) aquas) on the floor and wait until the testmark and seal the left's edges with duct-tape. Check after several days. Water droplets on the half-covered surface indicate condensation; droplets on the underlay surface mean leakage.

such as a fence or wall, or even a tree trunk. If you are using a tree trunk, make sure it is at least 12 inches in diameter. If you are using a fence or wall, make sure it is at least 6 feet high. If you are using a tree trunk, make sure it is at least 12 inches in diameter. If you are using a fence or wall, make sure it is at least 6 feet high.



UP! This 3,800-square-foot duplex-style house in Rockland, Connecticut, measures at the lot size or four large units—each over 50 feet long—plus several smaller spaces for the driveway. It's 100% modular; it recently required a 150-foot crane to lift the 22½-ton sections into place.

BY MARK STEIN

Modular houses were once the scourge of suburban cookie-cutter prefab McMansions, not much different from oversized mobile homes, minus the wheels. Nowadays, though, factory-built houses, built rigidafter-rigidafter-chalk, are often indistinguishable from conventional houses constructed stud-by-stud. They have lofts, sunrooms, second- and even third-floors. They have fireplaces, sunrooms, vaulted ceilings, lots of windows, four more bedrooms, and several bathrooms, just like their stick-built counterparts.

At the high end, modular can range in size from 3,000 to 48,000 square feet, and cost anywhere from \$130,000 to more than \$1 million. That's a far cry from the 1,000 to 1,400 square-foot single-story modular that still account for the industry's lowest-priced products, which typically cost \$15,000 to \$18,000.

According to Jerry Radusin, owner of J. Radusin and Associates, a modular home marketing firm in Lebanon, New Hampshire, "The whole image of what a modular house is has changed over the last few years." Last year some 35,000 modular houses were assembled in the U.S., up from 25,000 five years ago, but improved looks and higher quality aren't the only reasons buyers are going modular. Speed of construction and lower costs are also prime considerations.

"Because so much is done at the factory, it's always faster to build a modular home, whether it's large or small," says John T. Tracy, executive vice-president and chief operating officer of All American Homes of Elkhart, Indiana, one of the nation's largest modular-home builders. The assembly-line method of production carries the biggest time savings. Depending on the house's size, it



PHOTO BY GUY LAWRENCE FOR MONEY MAGAZINE

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FINANCES

can be made up of two or nine modules, each of which can run up to 64 feet long and weigh 14 to 16 tons. "Custom modules cost per the building manufacturers in Denver," Reslens says. "The plan form comes along, and then the framing...and then something else."

While the modules or sections are being built at the factory, the founders and their manufacturers work can take place on the site. Then, once the modules arrive on a flatbed pulled by a motor or trailer—complete with cabinets, sinks, and lighting fixtures—they're fitted by crews, laid on the foundations, and attached to each other by the on-site builder. The final task involves putting up the exterior and finishing the exterior siding over the joints between modules.

A modular home can generally be ordered, built, and shipped, depending on building, in three months or less, says Reslens. The assembly and finish work usually takes another 30 days. By contrast, the construction period for a stick-built house often lasts six months.

The big savings on modular result from the fact that manufacturers buy in bulk or in volume. Also, labor costs are lower, and bad weather doesn't lead to costly delays, as it can with conventional construction. With these manufacturing efficiencies, modular homes offer the greatest price break in the lower and

middle ranges, under \$200,000. Meaning that customers pay around \$45 per square foot, a discount of about 30 percent compared to similar stick-built models.

Reslens cautions that when comparing prices of the two methods, many variables must be factored in, including the complexity of the design and the quality of the materials. "With some homes there may be a cost savings. With some others—particularly with expensive models—there might not be any savings," says Reslens. "The reason is that, at the higher end, there tends to be more custom work involved—cabinets, flooring, lighting, special design cut glass."

The cost advantage of modular over stick-build also shrinks as against where labor is inexpensive and where building proceeds most rapidly because of a winter climate and fewer winter-delays delays. According to Fred Halbfass, of Hellmann Associates, in Baltimore, Maryland, the nation's leading modular manufacturer, few modular homes go up in the Sunbelt or on the West Coast. Most are found in the Midwest, in rural parts of the Northeast, and especially in the Mid-Atlantic states, where fine percent of all new homes are modular.

That geographical skew also reflects the fact that most modular-home manufacturers are

located in Pennsylvania and the Midwest. "Modular houses tend to be built where there are manufacturers relatively close by," Reslens says. "You wouldn't want to have a modular house shipped so far, because the shipping expense would get prohibitive."

Though residents make building a new house faster and, in many cases, cheaper, they do have a disadvantage over conventionally built structures: changing your mind is very expensive. Say a couple decides that they want a wall to run across a window instead, or that they want a different type of refrigerator or kitchen cabinet. Once the unit is out of the blueprint stage and under production, says Reslens, it's almost impossible to make changes without paying extra fees.

In spite of the costs, many builders, factory-built houses are the future, says Reslens. "Considering the expected demographics, the fast pace of construction, and the competitive time, more and more people will be purchasing modular homes." ■

THE PRICE OF PLEASURE: A CASE STUDY

The state is compelling. Modular houses cost less than conventional ones—but any profit-oriented company can say that, as can find out there really is a price advantage, we asked Dave Niblock, sales and marketing manager for The Beach Corporation, to price out one of the high-end houses his company manufactures. "We produced," he said, "one-unit \$200,000-plus-foot, two-story Oxford pickup up in New Haven, Connecticut." For what this house does, this house, shown at left, doesn't look like a fortress and details. Under a full-fledged roof, the inverted house features a large master suite plus three bedrooms, three full baths, and a sitting room. The downstairs includes another long living room, among them a sunroom, a queen room with bath, a living, ready-and-harmful dining room, two dining rooms, and a kitchen-sized breakfast pantry. And if that wasn't enough, there's even a lower-level laundry, walk-in closet and an outdoor patio with a barbecue—just one of the most affluent counties in America—the house looks, handsomely, like a million-dollar. But its asking price to cover the eventual owner's lot fees—about \$100,000 or \$144 per square foot—makes hardly house seem the imminent millionaire.



house for a stick-built version. We showed the plan in a open trailer housed in the space, and he came up with a price of \$300,000 per square foot, adding that other trailers in southern Connecticut would come in at \$140 to \$160 a square foot, or \$440,000 to \$4,160,000. So the house would indeed be a million-dollar deal—but not if it came down in history.—See Center

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the details

WHAT A DISH

NEW PATTERNS TO SET YOUR TABLE RIGHT

The set of china newlyweds choose for their shared home is meant to last a lifetime. But with trends in home design changing every five to seven years, says Bloomingdale's home furnishings fashion director David Hammond, there's always room to update the look of your table top by coordinating new dinner, salad, or brunch plates with classic whites, florals, and gold-banded pieces. The latest styles in china reflect clothing and lifestyle trends, especially with popular ready-to-wear designers expanding into home accessories. Thus a spate of gray and platinum-banded dishes reflect the hot color on runways last season. Ceramics and porcelain in a forest of greens, accented with leaves, showcase the interest in nature motifs. And with the mainstreaming of sushi, Japanese-style square plates are finding a place in American homes.



A hand-painted "Dragon" plate from China of Italy in a dragon's仓库 of Italian style. The whimsical dragon pattern and colors are reminiscent of traditional porcelain.

I'm the designate MILK SMELLER
... my house.



My husband gets the
to feed I cook on his feet.
I'm the cleaner and keys
Please do you think I'm happy?
I don't mind cleaning, though;
I'm ready to do you think it's to be?

My husband goes on for 30 minutes
about people at Disney
and it's a special moment though
he's not there.

He's a single man and
he's not there. He's not there
at all. He's not there at all.
He's not there at all.

He's not there at all.

Amana

the details



Potteries' "Ceramic Leaf" bowl and saucer with a green leaf motif on the saucer, and matching "Wreath" collection tray. Handmade in France, green "Biscuit" dinner plate (not shown) represents a color departure from the classic Limoges fine "Antique Pewter" palette. Plates are made by hand in ancient Chinese techniques using pressure-cast plater threads (glaze) through the clay during molding, resulting in a crackle finish.



L'Atelier Philippe's "Blue" in Wedgwood's tradition, now in a bright or translucent glaze, the Ceramic Philippe Godechaux's "Biscuit" dinner plates & blue pearl-grey border with decorated "Antique Pewter" gold is a precious gift motif accent on dishware. But L'Atelier Philippe's "Biscuit Crystal" plates (bottom) tempt us you for platinum-like metallics of the moment!



David Pugell captures the new popularity of yellow in this luminous pale (top). Zuber's ceramic "Rondo" plate (center) uses a more greenish-yellow wash with impasto leaves, fit for a French Rose. Jean-Louis Cottard's impasto "La Research" plate (right) comes in a set of four oval bowls, each worthy of becoming a while or permanent part of David Pugell's midcentury modern plates (bottom), mostly a Depression era finds. The dark colors of Gary Danner's "Gold" (far bottom) puts a new spin on a classic silver color.



Jean-Louis Cottard's impasto "La Research" plate (top) comes in a set of four oval bowls, each worthy of becoming a while or permanent part of David Pugell's midcentury modern plates (bottom), mostly a Depression era finds. The dark colors of Gary Danner's "Gold" (far bottom) puts a new spin on a classic silver color.

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Remote Possibilities

Automating your home can be as simple as plugging in a light.



BY GENE O'MALLEY

Any homeowner is a pragmatist. But it takes know-how enough to start the coffee and adjust the thermostat when my alarm clock goes off in the morning, and to switch on all the outdoor lights with a remote control. Better yet, I am it up myself, with no wiring, for the grand sum of \$150.

For years, home owners have been dreaming and reading about "smart" homes that will turn the house while you're on vacation, lower the heat when you open a window, or warm up the house so you can wake up the driveway. The technology for turning a house into an obedient electronic servant has been around for some time, but unless you were prepared to shell out big money for an elaborate customized system, those sorts of house servants might as well have been science fiction.

No more. These days, you can play *Block-Buster* even if you don't have a NASA-size wallet. Simple smart kits are available for as

little as \$40 or \$50, and you can keep adding options that give you the ability to open or close almost any appliance or

appliance in your house, and make them work in concert. That breakthrough in affordable home automation came in the late 1970s when a company called X10 Ltd. began marketing a series of easy-to-install products that needed no special wiring: coded, high-frequency signals were simply propagated into the existing electrical wires in a house. In effect, X10 made it possible for any one to automate anything within reach of its outlet. These classics—from X10 and other competitors—proved so popular that they are now being used in more than five million houses throughout the U.S. and Canada (including mine).

As an aside, an X10 system requires a control device that sends an electrical signal, and a module that receives it. For example, to automate a coffee maker, you just plug it into an X10 module and

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Helpful tips from our friend on the next page.

Our appliance repair technicians are trained to fix any problem your appliances may experience. They also have some tips that can help you prevent many appliance problems, yourself.



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An X10 mesh pool, rep-
sert a house or system,
activating appliances, elec-
tronic equipment, lights,
and even modems.

plug the module onto an outlet. You then need a tiny drill on the module to assign it a unique "address" (up to 256 per system) so that remote devices identify it and tell it to turn on or off. The device, which plugs in anywhere in the house, can be set commands by a keyboard, a wireless remote, or even from outside the house using a cell phone. Or it can be linked to a home computer, enabling you to create a "macro" or "script" (a series of commands) that lets the computer direct how and when your house's lighting, security and heating-and-cooling systems work. With new computer-based voice recognition programs, it's even possible to start verbal commands via the control unit ("Close the drapes") in person and over the phone.

Home X10 products can both send and receive signals, which allows an appliance to report its status and cue another appliance to operate. For instance, a one-way X10 device that's held to ensure the hot tub can't run triggers an X10 voice synthesizer to make an announcement when a temperature sensor indicates the tub is ready.

As more and more outlets in every room, and nearly everything you want to control come on the market, the results can be as limited or as far-reaching as your imagination. Beyond the basics (lighting, heating, cooling, security), X10 products can load pens, deliver

out rain weather reports, alert you when someone pulls into your driveway, and even check to see if there's food in your refrigerator. And there are dozens of other possibilities available through such Web sites as www.x10home.com and www.X10.com. If there is a downside, it's keeping track of all the systems and commands in your disposal. That's why a computer is a necessary component of the more complex systems.

X10 is not the only home automation game in town. Another protocol, called GEbus, can work over electrical wires, phone wires, TV cables, and radio and infrared wireless systems. But there are far fewer GEbus products than X10-compatible ones, and they tend to be costlier.

Because these and other home automation products each have a different way of communicating, the industry group that promoted GEbus is now pushing for a universal language—HomePlug. HomePlug would put all these systems on speaking terms. HomePlug, Inc. holds out the promise of an expanded market with more choices and user innovation, although, to date, there are only a handful of HPT-certified home-control devices on the market. Time will tell whether they will become the new standard. In the meantime, I believe I've gone long enough without an incentive red circle. ■

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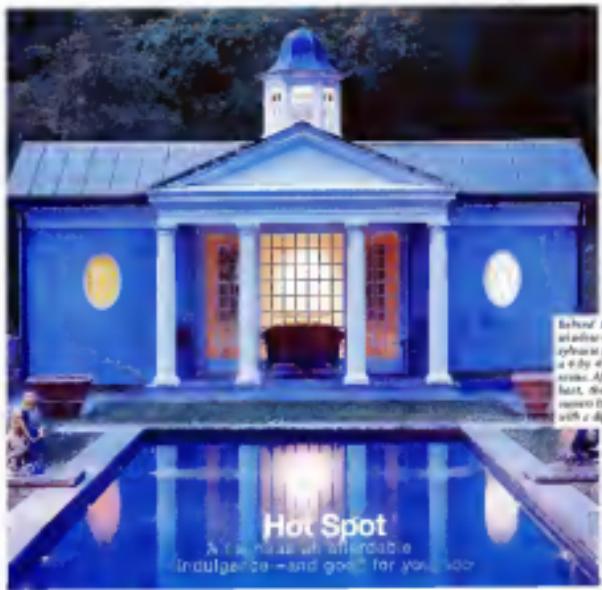
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Behind the left roofline of this Pennsylvania residence is a 6-by-40-foot cedar screen. After taking the boat, the two-hour round trip is rewarded with a dip in the pool.

Hot Spot

A 10-foot-wide, affordable indulgence—and good for your skin.

Four years ago, Keith Rasmussen, president of Sunstate Inc., the largest sauna manufacturer in North America, got a call from one of his salesmen in Kansas. Their desperate bosses had walked into the shop. The men explained they'd been on a Caribbean cruise and, in the spirit of河西冒险家, had tried the ship's sauna. The experience was quite a revelation. "These guys had no idea how many saunas they had in their bodies until they started sweating them out," says Rasmussen. "After one session they felt totally relaxed and just plain healthier than they'd felt in years. As soon as they got back, they warned me not to leave."

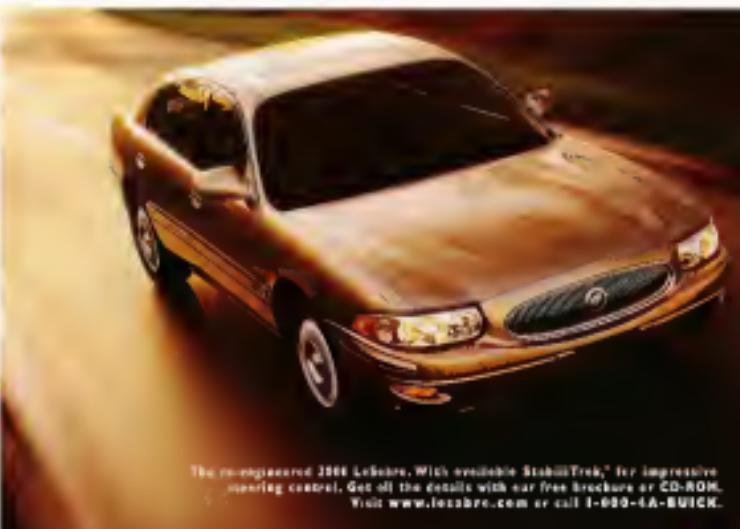
Sitting at his office in Coon Rapids, Minnesota, Rasmussen hears stories like that all the time—from corporate execs to red-blue-collar workers, from the healthy and the sick. "My customers" aren't wrong," says Rasmussen, "but they all want the same thing—the sense of health and mystery you get from taking a sauna."

The sauna as we knew it was invented by the Greeks, who recognized the benefits of sweating out stress in a hot

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dates about 2,000 years ago. The original saunas were tree-savaging and buildings made of logs or boulders, and were heated by burning wood or peat. Full of smoke (every sample at saunas, bathers would pour water over the sauna to produce steam). The Finns call it leipä—the defining aspect of a true Finnish sauna. A traditional sauna bather was followed by a quick plunge in a snowbank or a cold tub of water; then it was back to take the heat.

Modern saunas function much like these “primitive” sauna parts—except that they can now be installed inside a home, and have sleek designs and pretty designs that complement bathroom fixtures such as electric heating units with limestone, and heat and rock ovens. Certainly today’s saunas achieve the same results as the earliest versions: they help you relax and improve your health. A sauna will loosen your muscles as a result of the heat, flush out toxins by making you sweat, burn calories (up to 300 calories in a 30-minute session), and cleanse skin by opening pores. Some studies even connect sauna use and the ability to fight disease. A number of doctors even recommend sauna use for relief of the symptoms of such autoimmune illnesses as arthritis and Lupus, and in the treatment of alcohol and drug abuse.

No so long ago Amaco came up with not only in the gym or, like these finns, in version. But because of our becoming recession- and health conscious—culture, more and more folks are treating themselves to sauna at home. “At the end of a long, hard day, taking a sauna is the ultimate indulgence for your body and soul,” says Deborah Landau, a homeowner at Chappaqua, New York, who became a sauna-sauna convert after a trip to Finland many years ago.

Todays’ sauna users might be more interested in a sauna spa room, complete with a gym, shower, changing room, wet bar, and lounge. Of course, not everyone has the space for a sauna this big. Luckily, there is an impressively small one (one-seventh the size of



Look for these portable saunas can be taken apart, moved, and assembled at home.

Custom-made saunas are designed to fit in closets, sunroom areas or other unused spaces.

by 6 by 7 feet), finding a place to put one at home isn’t as daunting as it might seem. “You can install one outside on a deck or in the back yard—or made by converting a spare room or repurposing an unused closet,” says Vickie Johnson, owner of Body Health Systems in Riverhead, New York. “Often people end up putting a sauna in the basement, but master bath rooms and sunrooms are popular spaces, too.” What is important is placing the sauna close to a shower or a pool for quick cool-downs.

The three types of sauna units are available—custom, modular, and portable—the latter offering a full range of styles, customization options, and prices. Both to fit an existing space, custom sauna cabin kits are pre-cut for the most flexible option. They can be built in any size or shape and can be installed under a staircase, in an enclosed corner, in an old walk-in closet, or outdoors. You can even commission an architect to design one for you, or you can turn to a manufacturer who will send you detailed manufacturing instructions and drawings to complete, and then build it out to your spec. You’ll receive a kit of parts (insulated walls, floor, and ceiling, benches, and a plumbing drain). Assembly takes a few hours (most of which you can spend on hot romance) or you can choose or not be helped by the subcontractor to put it together, as well as an electrician to handle the wire to the electrical panel. Depending on the size, price for a custom sauna range from \$2,000 to \$3,000, and the cost of the electricity and operation—assumably with solar power or approximately 20 hours—will probably add an average of \$1,000 to \$3,000 for fuel bills. The price for an off-the-shelf modular designed sauna would depend on the specs, and the lower would have to be purchased separately from a manufacturer for between \$450 and \$1,000.

Modular saunas are freestanding and range from 4 by 6 by 7 feet to 12 by 12 by 7 feet. These look like units you’d find in a furniture store, but they’re built to last. Custom-made saunas can go anywhere there’s floor joist support.



Modular saunas are available in sizes for two to 12 people. They’re easy to assemble and can fit just about any room or space.

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cost, they require a seal, often supplied by the manufacturer in kit form, or custom built by a local contractor. Modular units tend to be more expensive than custom built but are much easier to assemble. Depending on the size, two people can put together the kit in about three hours. Again, an electrician may be needed to handle the wire in the electrical panel. Prices

range in the thousands," says Rasmussen. "We've come a long way from this." You can deduct the owner's expense with the materials used in the space around it—drywall, tile, or wood. You can also echo the room's shape and make the unit rounded or angular.

While Americans tend to think smaller when they think sauna, social norms for the exterior are quite varied. Here in Canada your choices are restricted by such trends because local wood products get harvested. On the walls and ceilings, some people prefer indigenous or old-beams made of hemlock, or hemlock. The Scandinavians feel of Nordic white spruce, a blond wood similar to pine. On surfaces that touch bare bodies—benches, headrests and backrests, floor boards, door handles, and heater grilles—it's important to choose a wood that has a very low bare resistance. For lots, a leading sauna distributor uses asbestos insulation and live-free wood from a tree that grows on the Ivory Coast.

You have fewer options when choosing a heater. Most saunas come with an electrical heater; all you have to decide is whether to mount the unit on the wall or on the floor. Saunas heated by wood ovens or gas stoves are available, but because they involve more upkeep than electrically heated models, they tend to be less popular. You can also choose between ceramic and heating concrete pots (stubs), digital or programmable, and place them inside or outside the sauna. Some models let you raise the rock above the heating, others have the rocks inside the heating chamber—a option that allows for extra rock density and provides an orange-to-flame, a longer, less intense heat.

Because people regard a personal sauna as a luxury, they imagine the price must be astronomical—in fact, units range from between \$2,000 and \$6,000, not including sauna stones. "There's a lot less expensive than a walk-in spa," says sauna manufacturer Sandra. "It's like having your own little health improvement room. Whatever you want, you can soak your stress away in the privacy of your home, and then emerge glowing with an enhanced sense of well-being." ■



average from \$3,700 to \$6,000, and professional installation will add \$400 to \$600 to the bill.

Portable saunas can usually be packed up and rated away. Designed for outdoor use only, they're made of wood so easy to pack together in cases (each of which weighs about 250 pounds) and comes with wheels, where attached, the unit measures 4 by 4 by 7 feet and holds two people. Though no need to worry about where to put a portable sauna, the vinyl liner allows no rest on any surface and nothing to scratch. The best part—in plugs into a regular wall outlet. The cost: about \$300.

Introducing an outdoor sauna into the decor of your house is usually a simple matter. "It used to be that residential sauna centers are ugly boxes

S A U N A S P E C S

- Most saunas are approximately 7 feet high (butcher-block-style saunas reach almost 8 feet).
- To determine what size unit to install, divide the room's perimeter pixels (the distance between the walls, this is called 2D) into 2 feet of walking space (over 20 feet)—and then 1 foot of sitting space. For example, with 9-foot unit over 10 feet of walking space (or 20 feet) plus 1 foot of sitting space, you'll need 10 people (or 10 feet of butcher-block) and two people sitting down.
- A high-heated jet (heat a spot off the ground) is a must for experiencing sauna heat 240 to 270 degrees, but if you've got the room, consider adding a lower heater whose heat is less intense—40 to 100 degrees—the more subtle it looks, the very high temps (saunas, such as children, programmed temps, and the elderly).
- Whether you go for your sauna (sauna or steam) it's important to keep moisture out of the room, especially from the bottoms. Hot rocks get hot enough to singe hair skin. And never ever leave water inside the sauna. It will intensify the heat and give off bad fumes.
- The heater provided by the manufacturer should be tested by Philips Electronics Laboratories, an independent safety testing organization. Because a top-of-the-line, larger sauna needs to be checked for safety, it's important to have a certified electrician inspect it (a certified electrician is one who has passed a written exam and practical test). This 20-minute inspection will increase the cost of 100 by approximately 10 to 20 percent.
- The best way to reduce energy costs is to insulate—like concrete or vinyl—but it won't mean it's less and water

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The Heat Is On

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With the possible exception of our cars and our bodies, we tend to wait until we hear equipment needs done before we take action. In the case of heating systems, that can be a big mistake. Delta's a regular tune-up and you risk not only poor home comfort but also higher fuel bills and shorter lived equipment. To find out what it takes to keep your hardware happy, we turned to experts through the baton of Barker and Furniture Maintenance.

OIL-FIRED BOILER

Tom Jones, owner of Autonomic Oil Company Inc. in Bloomfield, New Jersey, maintains the oil-fired boilers and furnaces at about 600 acute houses. But he figures there are lots of home owners who don't call him, or anyone else, for the necessary annual check-up. Programming, however, creates trouble because most breakdowns stem from skipping an upkeep, which can also result in fuel waste. "For less than \$100 worth of parts and labor, we customers increase their oil bill by 10 percent," said Jones, down in the basement of a house in Bloomfield, New Jersey, responding to the kind of call he prefers: a request for a tune-up before there's a problem. As an all-call job, he begins by replacing the fuel filter and the pump strainer, as all burner's first two lines of defense against the sludge that typically collects at the bottom of a fuel tank.

Pulling out the old filter, Jones inspects it closely. A thin, yellowish residue indicates water in the tank, he says. "With an underground tank, this may mean a leak. An anomaly like this, gravity depends on the filter can also be a sign of a clogging tank, or simply that the fuel level has on occasion gotten too low." Keeping an oil tank full stops particulate from getting stirred up and pulled into the system.

Jones uses a spudger to open the top of the burner to work on the electrode-wire assembly, which runs the oil from a float valve into a燃ing flame. He points to a reusable metal, gold-colored filter that keeps the nozzle clean, as it scratches off a speck of sludge. "A scratch can be all it takes to stop it up," he says. Jones then re-plugs the nozzle, cleans the oil-in-mixing cone and the shroud, and looks for rust deposits. All burners produce some rust, he says, but when it builds up inside the boiler, efficiency diminishes. Removing the top panel to expose the coil also has advantages; Jones uses a long wire brush to scrub off the condensate. The root causes: swarf in black plates that are promptly sucked up by his vacuum cleaner.

After cleaning up the burner, Jones flues up the boiler to make sure it runs properly. He inspects the flue through a prep hole to make sure it's orange-yellow and seamless. He also



In houses with hot water heating, an open firepump is installed, reducing the system's efficiency. To get the heat out, open the burner and add a sediment filter. Once the water passes through the filter, the water once there is already free of water.

WORK THE WEEKEND AND LOVE EVERY MINUTE OF IT.

You could learn to love putting in all those extra hours on the weekend building projects you've always thought about doing yourself. From cabinets to decks or fences. Even that rusty corner building you were going to pay somebody else to do. Good place to start is with Delta tools. These items are just part of the more complete line of professional tools tool set there.

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CLOSE UP Whether it's a boiler, tank, or a furnace, a pre-service tune-up is a must. Puff off any debris with a simple blast of steam, or it's important to change the filters, too. To keep savings from shriveling, don't忘turn off systems.

checks for any signs of erosion in the refractory brick that surround the boiler tubes, he can quickly spot the metal encrustation. While the system's firing, Jason performs his final task: placing a bucket under the drain valve and emptying out a few gallons of rust-contaminated water. As the boiler's water level falls, the burner stops, confirming that the low-water cut-off mechanism—an important safety feature—is working.

GAS-FIRED FURNACE

Furnaces that run on natural gas may be cleaner than oil, but that doesn't make them maintenance free. "When a home owner calls about noise, odd smells, or smoke, odds are that the system hasn't been serviced for a while," says John West, a service technician based in Bedminster Heights, New Jersey. Gas-fired equipment should be serviced at least every other year, but West recommends a yearly check-up. "Why give problems a year's head start?"

Starting work on a furnace in the basement of a house in Summit, New Jersey, West closes the main gas valve and turns off the electrical circuit that powers the system. He opens the cover panel and removes the manifolds, the pipe that feeds equal amounts of gas to the four burners. Then he pulls out the burner tubes, which turn out to be encrusted with layers of rust and mineral deposits caused by water. "You don't have to worry about soot, but water is a natural by-product of gas combustion, which is why these systems need regular cleaning," he says, pulling out a handful of rusty scales. "This system hasn't been proactively cleaned in more than 10 years, and that has reduced its efficiency." West uses a variety of wire brushes to scrub the burners, the heat exchanger, and the flue pipe.



CLOSE UP A furnace, like it, should be inspected and cleaned at least every two years. Some companies offer a pre-service tune-up that includes checking that the gas pressure is within the high and low set points and that the burner efficiency and heat exchanger are clean.



CLOSE UP A furnace, like it, should be inspected and cleaned at least every two years. Some companies offer a pre-service tune-up that includes checking that the gas pressure is within the high and low set points and that the burner efficiency and heat exchanger are clean.

After reinserting all the tubes, he inspects the furnace for leaks, which could put dangerous carbon monoxide (CO_2) into the house's duct system. Once he's checked the air with a compensated CO-detector that can detect trace amounts of the colorless, odorless gas, West then moves on to the dust-removal blower, which actually requires little maintenance, he says, other than a few drops of oil for the motor. For belt-driven blowers, he makes sure the belt has no more than a half-inch of play, and if there's any sign of cracking or wear, he puts in a new one. In most cases, the blower blades also require cleaning, but these pass West's dust test, which means that the house owner has been forewarned about cleaning.

Next, West cleans the pilot light assembly and replaces the charred thermocouple, a device that keeps the little flame going. "I always put in a new one," he says. "It's cheap enough—just a few cents. If the flame just wears out after a while." Before reigniting the furnace, West checks the gas pressure with a special gauge. Then he turns the pilot and turns up the furnace to observe the flame. He inspects the air shakers on the front of the burner tubes to ensure the right amount of air and fuel come of proper. Same with blue cones without a trace of yellow.

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Table It

Casual or formal, dining tables create a reason to gather

BY JILL BIRCHNER

W

ith the popularity of great rooms and eat-in kitchens, eating have replaced the death of the formal dining room. But the fact remains that no matter what kind of space it is, a dining table is still essential as the center of family meals, dinner parties, holiday celebrations...and wonderful conversations.

Certainly casual blues and living areas have affected the tables themselves. Simple painted bistro tables, durable outdoor topped barn tables, and plump round Mission oak pieces (all of which are especially practical for young families) are everywhere. Yet most of us still choose a more formal piece for a proper dining room. Whatever its period or provenance, a dining table deserves respect and reverence, so care should be taken to address choices of both style and substance when selecting one.

Innovations in dining room tables are rare. Many of the ones produced today are re-creations of 18th and early 19th century classics, such as Queen Anne, Chippendale, and Sheraton. "But people are gravitating toward a pared down, less ornate version of classicism," says Marcos Delgado, owner of the Batten Sharpe furniture store in New York City. "In contrast, that's really what American furniture has always been about—we look what the English were doing and boiled it down to its essence." In addition to sleeker, simpler lines, darker, even charred woods are in fashion, in less highly polished surfaces. As in other areas of furnishings, modern design is enjoying a resurgence, with minimalist supports at pieces by such wood designers of the period as TH Robsjohn-Gibbings.

PHOTOGRAPH BY MATTHEW BENSON



The Federal style double pedestal table of solid mahogany is adapted by Batten Sharpe from a design by Colonial furniture master Thomas Phife.

Function is paramount when choosing a table. "A dining table needs to be comfortable and stable or else it will become your precious dust catcher," says New York designer Thomas Jayne. Tables fall into several camp: legs versus pedestals, round (or oval) versus rectangular; and extension leaves, drop leafs, open panel boards, or drop leaves versus stationary. "It's important to think about how you'll use the table on a daily basis," advises Delgado, as well as which shape and size will best suit your space. "Don't buy a table for 12 when only five sit around it most evenings; choose an expandable style." While some people are partial to the convenience of round tables, Jayne finds his regular pedestal tables the most versatile because they accommodate varying numbers of guests.

While there's a certain beauty to having a table that echoes the architecture of a house, there's nothing wrong with mixing periods. "I've got old chairs around a fine round table from the '50s in a traditional room," says Jayne. "It's all about proportion, scale and style." He also points out that buying a fine antique table, because of the astronomical expense, is for the "advanced" collector only. "Your money will go much further with other pieces, buy a reproduction dining table."

Whether new or old, country French or high Regency, your dining table should have a silhouette you admire, but one that fades into the background when napped by family and friends.



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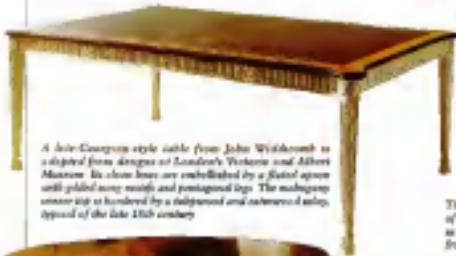


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Five dining tables that put a contemporary spin on Old World styling



A dark-Gaussian-style table from John Widdicomb is adapted from designs at London's Victoria and Albert Museum. Its clean lines are embellished by a flared apron with gold-tooled motifs and cabriole legs. The mahogany veneer top is finished by a burnished and varnished patina, typical of the late 18th century.



The drop-leaf table evolved in the 18th century as a refinement of the gateleg table. This French-red lacquer from J.L. Victor is made in England by the Henkel Co., with genuine furniture makers' tools, such as grained solid oak with mortise-and-tenon joints.



A round professed table invites easy conversation. George's Gallerie table is based on 17th- and 18th-century English and French country designs. The planked-top table with its over-scaled semi-shaped base, a large flared side shelf and curved accessibility.



J.H. Belter's Gillibungs brought modern design to the masses in the '80s. This table, with its elegantly curved cabriole legs, was designed for John Widdicomb and has been restored through Reborn Furniture. The unique center-top box on raised edges; the table comes with two leaves.



This 6-foot drop-leaf maple table is a Shaker Workshop version of a mid-19th-century country table. Its slim profile when closed makes it ideal when space is at a premium (people can be seated at it even when the table is down). It can be bought at a lot for home ownership at half the price.



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Fireplace in a Day

Factory-made units make heartwarming wood fires convenient and affordable



My childhood home never had a fireplace, nor did I know the heady smell of burning amber or the low crackle of winter flames. When we painted back that two-story bungalow in 1966, a limited budget precluded a brick chimney, so they put a window in at place and dreamed of the day they could gather their family around the hearth to laugh and share a tale or two. What they should have done was install a zero-clearance fireplace.

These prefabricated wood-burning fireplaces, assembled mostly from steel components, are a modeller's dream, ideal for moving rooms and new additions. They are light enough—about the weight of a refrigerator—to set on unseasoned wood—your floors and no soil required that they can route safely within walls with no need of stonemasonry. And amazingly swift: A competent carpenter can install one of these fireplaces in a fraction of the time it would take to move or build one from scratch. (The term "zero clearance" is really a misnomer, a doublewhammy to the time when these units could

be placed right up against a wall. Today, a 1-inch airspace is required to protect the flueing.) The Old House crew visited Tom Silva has installed four of these wood-burning prefabricated units in the last five years, most recently in the kitchen of the TV show's 1998 "When Owls Preep." As long as I can run the shingle roof up, I can position the fireplace anywhere in the room," Tom says. "That's the beauty of it."

On this day, Tom and his nephew Charlie Silva are putting ready to fit another manufactured fireplace in the unheated media room

PHOTOGRAPHS BY KELLER & KELLER

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The stainless-steel firebox sits between spooling assembly base the base in place. Tom and Charlie cover a vented steel frame, which protects the flueing from the back heat.

explains, "West I'd have to dig a little below frost line—dig a 6-in. deep base, cover it with a 2-in.-thick double concrete footing, and pour a 7'-tall tall concrete wall on top of this. Then I would need a stoneman to build a 5'-foot brick base of concrete block on top of this, just to get me to this base," he says, pointing toward his fire. On this base, which would have taken up a lot of space on the ground, the mason would lay up the fireplace and sweep the fire in a heavy, 22-kilogram tower of brick. Tom then said he would have taken a month or a week and a half to build base, fire box, and chimney, for a minimum total cost of \$1,100. He and Charlie built the chase and installed the fluepipe and fire by themselves in one day for only \$2,000.

Before Tom installed the fireplace, he has to prep the chase. First he fits 6-in.-thick unfaced fiberglass insulation between the walls of the exterior wall—"You want the heat from the fireplace to stay in the house," he says—and covers them with a 6-in. plastic vapor barrier. Then he leaves the ends of the chase top to 3½ in. above the top of the fireplace and the wall behind the fire with sheets of ½-in.-thick fire-rated drywall. Although neither end nor any other area requires drywall, Tom remains at a wise and more expensive precaution against fire.

When the chase is ready, Tom and Charlie slide the fireplace into its framing, center it, and fasten it to the wall and floor with the screws and stage pins provided. Metal clips protecting the sides and top of the fireplace and supports along the arches also automatically maximize the masonry's 1-in. thick capspur. These allow the front of the fireplace to protrude from the walls about ½ in. and ensure that it will be flush with the walls once they are drywalled.

With the fireplace now firmly in place, Tom slips the fire 4-in. length of the fire's masonry-lined liner over the arches and atop the top of the fire box, and uses the liner's tabs to secure them together.

If an under-seat-to-jamb clearance the hearth and the front of the fireplace, this 1-in. thick strip of galvanized steel along the front edge would prevent the audience from burning.



If an under-seat-to-jamb clearance the hearth and the front of the fireplace, this 1-in. thick strip of galvanized steel along the front edge would prevent the audience from burning.

of an addition they're building in Lexington, Massachusetts. Nearly ten large steel firebox and several metal cylinders that make up the two layers of insulation fit, about 100 pieces they need for today's work. To bone the firebox and liner, they've already built a clean rectangular support system made of steel that runs from the floor to the peak of the cathedral ceiling. The chase's dimensions—33 inches deep and only 4 feet wide—aren't larger than needed to contain the fire, but they give the masonry a sense of a massive fireplace.

Why not just build a chimney the old way with brick and mortar? Tom explains, "West I'd have to dig a little below frost line—dig a 6-in. deep base, cover it with a 2-in.-thick double concrete footing, and pour a 7'-tall tall concrete wall on top of this. Then I would need a stoneman to build a 5'-foot brick base of concrete block on top of this, just to get me to this base," he says, pointing toward his fire. On this base, which would have taken up a lot of space on the ground, the mason would lay up the fireplace and sweep the fire in a heavy, 22-kilogram tower of brick. Tom then said he would have taken a month or a week and a half to build base, fire box, and chimney, for a minimum total cost of \$1,100. He and Charlie built the chase and installed the fluepipe and fire by themselves in one day for only \$2,000.

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With the fireplace now firmly in place, Tom slips the fire 4-in. length of the fire's masonry-lined liner over the arches and atop the top of the fire box, and uses the liner's tabs to secure them together.

He then slides the insulating outer sleeve—made of galvanized steel—over the liner. So the fire grows, so does the sleeve, and each new piece snapping to the last. Tom uses tape to lower the the lengths of liner in a seat onto the previous segments. Similarly, Charlie connects these plates and clamps up the rest so we can grade them into place around the liner.

Back inside, Tom finishes today's job by sliding a 3-in.-wide steel timber gasket under the front edge of the firebox and fastening it to the plywood substrate with galvanized box nuts. In less than an hour, fluepipe and firebox complete. Tom and Charlie head outside for a hot of lunch.

Nicely. They would need to go up on the roof to fit a flue collar over the fire and top it with a chimney cap, to keep our rain and critters. But because the local lumber distributor, Foothills Millwork, based here, poking out of people's houses, Tom called in master Leroy Belliveau a few weeks before insulation dry and asked him to build a 6-foot tall black chimney on the rooftop that would hide the insulation. To support the brick's weight, Tom built a body faced out brick base 6 feet below the roof line and stepped up the others around the opening in the roof. After Leroy was done and the fire was in, Tom had a crane and rappelled Leroy's hand truck with a 200-pound oven liner chimney pot.

As the stone complete the rooms in the ranch to come, a masonry surround and hearth will be created. The building code requires an unobstructed hearth, such as tile or stone. It must be wide for the surround, 24 inches wide for the hearth. But with the firebox finished, the walls partially and wrapped, and the oven liner resting precisely above the fireplace, the stone needs to become the kind of place where a family can gather on a cold winter's night to smell the heady aromas of burning wood, feel the heat through cold masonry, and maybe laugh and tell a tale or two. That's the sort of room every house should have. ■

TECHNIQUE

WILL PREPARE LAST

Anyone who owns a home with chimney starting with a chimney breast around it might say that nothing beats insurance. But the truth is that no one really knows how long the chimney needs until well built up because they haven't been around that long.

The best over-insurance frequency were built in 1904 by Memphis Products Co. Although the company estimate that isn't set at twice from the 100 hours survival strength seems still working perfectly. It doesn't provide a life lifetime insurance with their current models, so do enough after insurance providers.

Others are quick to point out that 30 passes isn't very long in the life of a chimney. The database are the first to tell, says Ashley Bridgeman, technical director of the National Chimney Sweep Guild. And when they do, he warns that replacement parts, or even the company that made them, might not exist. On the other hand, he says, "There will always be brick and tiles buyers when you need them." Bridgeman's conclusion: People buy products because they want to save time and money. "The bottom line is, they just don't care as much."

Underwriters Laboratories has no particular concern with the safety of brick ovens, aside from the ones they have with any fireplaces, fireplaces, fireplaces, and fireplaces. Most of these units are properly designed, well-maintained, and installed according to guidelines established by the National Fire Protection Association. —ALB



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BY RONNY DASGORTAY

Wall and Order

No matter how alluring a fireplace, the wall around it requires design ingenuity

Fireplaces have an elemental appeal: the potential to transform the plainer rooms in the house into a magical space. Yet for all its romance, the fireplace presents a certain design challenge by dividing the wall on which it rests in two. How do you make the most of this broken expanse?

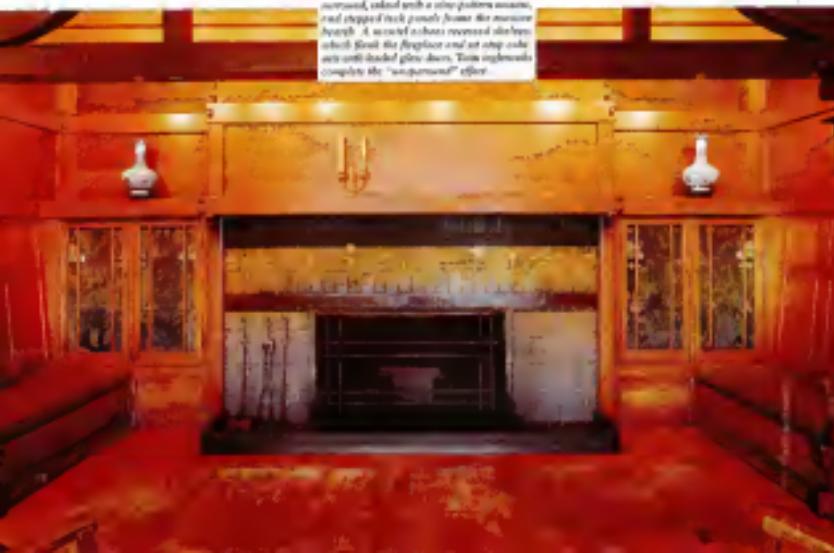
In the old days, the fireplace was the centerpiece to which household members were drawn for warmth, conversation, and—very rarely—contests. Today, although fireplaces aren't equipped with modern conveniences such as TVs and VCRs for entertainment, they're still the focal point of a room. And the wall around the hearth must live up to its visual and emotional impact. Designing a fireplace wall that's functional and attractive requires dividing interior space into the visual and emotional heart of the space above and on either side of the hearth.

Beds—such as bookcases and large modular designed cubbies for entertainment centers, enable you to solve presented non-

age problems by taking advantage of the recesses flanking a fireplace. The paneled fireplace built-in in the Inglenook, a wooden bench with arms, a high back, and an enclosed foundation that can be used as a chest. Inglenooks, an integral feature of Early American homes, were favored by Arts and Crafts architects such as Greene & Greene, for whom fireplaces were central to a home's design. "An inglenook is like a private cave," says Connecticut-based architect Michael Tolosa. "A sacred space in the house where you can relax and contemplate the soothing flames."

In addition to providing space for cubbyholes, the fireplace wall affords an opportunity to create a sophisticated composition of color, shape, and texture by using wood, stone, metal, and tile in various combinations. Successful designs, such as the five shown on these pages, center a wall where the fireplace and the surrounding elements are integrated and complementary.

In the living room of the Gamble House in Pasadena, California, Greene & Greene created the paneled fireplace wall by integrating storage, seating, and display using hand-carved materials and textures. A tile surround, tiled with a vine-pattern mosaic, and stepped brick panels frame the massive depth. A second set of recessed shelves behind the fireplace and an open side shelf with leaded glass doors, both elegantly complete the "panoramic" effect.



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BELT-IN TO LAST After the living room, northeast Peter Remmiger takes advantage of the empty space on either side of the fireplace to build in bookcases with shelves that provide added upright. The shelves after both storage and an opportunity for decorative impacts. The age is shown not only in the weathered book spines, but also in the wavy-painted designs on top. The bookshelves are further integrated into the room through the use of scenic picture frames that circumference the room and make up all of the shelves. Pictures and objects rest effectively on the white-painted mantel—providing a sound basis from the room's symmetry.

EXPENSE ACCOUNT won't try to introduce herculean fees and repeat mistakes to turn the well-lit case a violent struggle," says architect Jeff DeShoff. In this family event, he punctuates the sequence with steel beams and sheathing, and then—opposite the neutral treatment—is the bright, breezy, and whimsical kitchen he's built there.



DRIVING WITH DENSE LOTS: "People gather around the television the way they used to gather around the fire," says architect Dennis Wiedlick. This curved fireplace wall, which he designed for a New York City loft, puts the two elements on a per-seat basis so people can comfortably envision both. The residents get brightness in and in a minimalist portion that contains bookshelves with extra-long shelves for displaying as well as cubbies for electronic appliances. In front of it is a space-eating, L-shaped sofa with tight-seating-like cushions gracing its modern Arco and Girofa-style stools in front of the inserts. Above, a set of paintings plays up like a game board to reveal a television.



PLATE WITH A VIEW As for "The Breyfogle is the first thing you see as you come into a room," says architect Michael Taylor, who likes to use railings, cantilevers, and tiles to let the feature into the wall instead of it. "It's important to make it a joint with a magnified setting. The result is, the Breyfogle should start at the floor and go all the way up to the ceiling," in this Connecticut home, Taylor designed an elegant Breyfogle-wall flanked by tall windows and columnar wood paneling. It can be treated more, like split; the floor-to-ceiling space for a window above the fireplace in the interior, outside (left). Numerous iterations that seem to fold into the floor line and roof. ■

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W

Whether building a new place or fixing up an old one, people tend to focus most on the decorative parts of a house than on the structural aspects. They spend hours choosing the fancy windows, the beautiful wallpapers, and the perfect bathroom tiles. But men—no plumbing, heating, or cooling, will their eyes glaze over—unless they're trying to cut costs. Then they perk up, and start to figure out how to get by with the least expensive systems possible.

That's the wrong way of thinking. Because no matter how pretty the wallpaper, and tiles, you won't enjoy a house if you're sweating in the summer and freezing all winter. A recent trade survey revealed that seven out of 10 Americans say another guy with their heating systems. They want some cheap plumbers, but the real cost of that's great is simple: Most systems are designed on the cheap. Quite often, a house's mechanics are determined by the lowest price quoted in a bid, so they're either undersold or too big to run efficiently. For instance, I frequently see houses where the owners have bought huge pipes that hold 20 gallons of water, but the water has to heat a capacity of only 40 gallons, which means you've got to fill the tank at least 40 minutes—most by the time you do, it's cold. In some way, the home owner pays

Because my family's roots in the business go way back, I've thought about these kind of issues all my life. My great grandfather and his brother were firelighters in 1803, when they began money lighting as apprentices to "this new thing called planking." Their job was to travel, usually via horseback, along roads with heavy load and break pieces through the timber of Boston. Trethewey Bros. Plumbing & Heating has remained a family affair ever since. My grandfather, and after my dad, Rich, took over the business, with me as his associate, now my uncle and brother run it. We got a call in the winter of 1978 from *This Old House* inviting us to work on their very first project in Dedham, Massachusetts. My father, who passed away in 1989, was on the air that first season, and although he was a giant of a man in real life, you could see the blood drain right out of him during taping. It was drafted into service the next year and enjoyed another tremendous year. I was about 12 years old at the time of *camera*.

But the real reason I feel confident on TV is that I'm passionate about my message: Good work by the mechanical trades can change people's lives for the better. For our current project in Belchertown, Massachusetts—Dick and Sandy Solberg's house—we'll install a solar heating system to make them comfortable, a boiler perfectly suited to keeping their issues warm on the coldest New England day, a cooling system you can't see or hear, and a water heater big enough to fill a swimming whirlpool right in the house. If we do our job right, a home owner will never have to think of us again—and I catch flack of a higher compliment.



Plumbing and heating consultant Richard Tretheway has been the prime of paper on *This Old House* for a decade.

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A HOME FOR THE NEW CENTURY

The Billerica project passes the halfway point

What a difference eight months make. On the spot where Dick and Sandy Silvia's house burned down, a new one now stands—bermed, roofed, and sided. From the street, it looks as if move-in day is just around the corner, but inside everything is a jumble of exposed pipes, wood piles, snaking wires, and naked studs. So it always is with house construction: The framing goes fast—the back deck went up in just a day and a half (see p. 88)—while the finish work inside moves more slowly. Still, the Silvias are busier than ever deciding about furnishings and decor (see p. 80). They have to be, in order to have a livable place after the work is finished in December. At least they've got one room figured out: All the electronics for the family room's home theater have been chosen and are ready to be installed (see p. 90). Come the New Year, nestled beside the fireplace, Dick and his family will be able to watch the news on their big-screen TV and celebrate the warmth and comfort of their new home.



Hands-On Deck

Build to last with robust materials and water-shedding details

Dick and Sandy Silver's new deck offers a commanding view of their pool, hot tub, and the shade rooms beyond. But water doesn't always appear to a welcome surprise onto the deck in which plane-level-decking boards are nearly free of knots—and the step under piers goes everywhere, with its predrilling play of shadow and light. And although the deck looks deceptively straightforward, design like Tom's does incorporate non-traditional building methods. "It's not about how many people think you're building overkill," says Tom. "It's about doing it right."

So don't look for a using ordinary materials and inexpensive techniques that can compromise durability or wet weather. "Water is the enemy," says Tom, and his designs require that it stay off surfaces as long as possible is a recurring theme. For instance, Tom placed metal plates behind the ledger—the primary support behind a deck or dock or the business to any water often being exposed there. And instead of using traditional metal shims or plates, he preferred anything from molding waste and cylinder gaskets to applied live & West Island, a recycled slings of plastic strips ground plastic strips by hand several times. He can lay over the metal or fasteners behind the ledger and lift up the decking. Or simply hook wire and fasten around each board.

But to upgrade to solid glulam, or the cross-weathered wood siding, Tom also made sure the deck steps slightly away from the family room. "Because it is less than half a bubble will the pile," he says referring to the cracks in the tree's root. "It's supposed to be standard practice, but you'd be surprised at how many new decks are completely level."

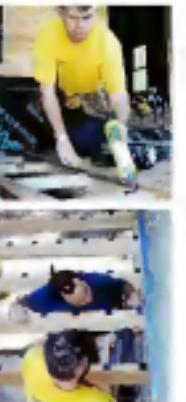
After building the deck's sturdy supporting framework—post-and-beam central 2x10 joists and 6x6 posts anchored with metal brackets onto concrete footings—Tom laid down deck boards made of up 1" x 6" poplar, 1" thick hard, characite-colored insulation boardwalk with a big durability reputation for durability. (It covers the famous boardwalk in Atlantic City.) The boardwalk have a saturated

60-year lifespan, mostly because of treated pilings piles, and cost Tom about \$1,000 more than roughly the same in cedar timbers. But cedar is a decompose quickly, especially if it's exposed to moisture, so it's not ideal for a deck or pier. Instead, Tom was unwilling to push the woods out toward water, with its erosion holes, so he stayed ahead the deck above with IMIT300, a fireproofing, waterproof polyurethane adhesive used in bridge-decking roads. The only thing increasing the fixture expense is a few 6x6 stainless-steel rods, which make a seal gas, which hold the woods in place while the glue sets.

Always at all loads for projects, we try to add some structure that changes a relationship between the ledger and deck frame. In this case, a vertical metal plate behind the ledger connects the joist system and deck, which is a more efficient light than creating metal brackets. Knowing the people who originally built the house had likely just replaced them out and shaped all the pieces in their original form, Tom took them apart. Then, they created the post-frame-supported walls with limited edges—which they added and helped in the deck process. After the decking was laid, they installed two 2x6 bridging at least 6 inches above the joists 8 feet above the deck. The top three 2x6s are higher than a standard 2x6 joist inflection of 10 inches apart and attached them to the bottom of a ledger board. To prevent water from reaching the wood sheathing, Tom applied silicone strips behind the ledger and ledged and upper floating over it. Along the top edge of each rafter, they cut shallow notches away in the inches for the 2x6 by 2x6 foot cedar cross-joints. These were nailed in place, because before Tom had all the notches lined with builder's felt to keep water from being trapped in the joints. Just a day and a half after Tom and Dick arrived, the new pergola was complete.

"Dick and Sandy wanted traditional qualities and a special finish," says Tom of the newly finished deck and pergola. "We've really worked at getting it all just right."

—Michael McWilliams



Guts and Glue 1. A epoxy sheet of Hesco batten prevents the exterior walls from spilling water while spacer blocks between the deck and the wall let water run through. 2. Tom secured the decking with agents of insurance marine-grade silicone, which eliminates the need for shims. 3. For the pergola, Tom screwed all the rafters to a ledger board to create 6x6s as plates of one piece. 4. Tom and Dick then raised the ledger in the house after they installed steps of lead-coated copper floating



The focus on this deck are its location, color, and overall theme: "They take away," says Tom, "with a warm, softness." "It's wanted to be as low-profile as possible," Tom says.

Nailing Down the Look

The Silvas begin again

It's been six or 10 days since Dick and Sandy have called home for an update—mostly, Dick Silva quips, because his wife, Sandy, has been too busy to call back. "It would be different if my wife and I had turned to pack under a pine tree and eat," Dick says. "But we would have taken our time and had fun with it. But the rules, you know a stickler, kind of brought it with it. It was a somewhat difficult decision."

"I'm patient." Dick reflected over the past year-plus, "so Dick is a patient guy about most things, but his musical and antique collection was really blighted by the fire." For the first few months, Sandy was too upset to even think about anything. "I loved my old house so much and enjoyed everything in it." In the end, however, the couple came to find they had to begin planning. "When nothing was left over from the fire, we decided we had to explore the old," says Sandy. "Instead, we thought we'd build a completely different kind of house with completely different furnishings."

The rest of the house they wanted to keep were antiques. "We've seen that even though family was still visiting, there's a change in her attitude," says Dick. "She's becoming more open-minded."

Because the price of contractors on the housing has been lower than it might be under normal circumstances, Dennis Jepson, the editor in chief of *This Old House* magazine, began working with the couple to help them figure out an efficient a痛快 and timetable for their decisions-making process. He explained that unlike the choice of kitchen cabinets and flooring—decisions that have to be made at the very beginning—the more "concrete" items, like paint colors, dimensions, fixtures, and so on, can wait till the construction work is under way.

The more urgent decisions concern the kitchen area, because of the plumbing, electrical, and carpentry implications of each selection. Sandy determined that she wanted a stainless-steel refrigerator and sink, a two-burner range, wall ovens, and a simple prep station. The kitchen cabinets will be made of Elm, with a clear finish. For the counters, she chose extremely durable Whitehaven, quartz in England, or a silver gray lacquer.

The other key decisions inspired by the construction timetable is flooring. The kitchen floor will be Mahogany—a durable hardwood that is easy on the feet. The couple is now deliberating over what type of wood would be most compatible with the dark oak trim and light wood. Sandy and Dick had already decided that a mix of hickory panel and handscraped oak—will be laid throughout the living spaces. And, in this former house, an Oriental carpet, secured with brass rods, will most likely replace the stairs leading to the second-floor bedrooms. "Our old owners came from my mother's house," Dick recalls. "They liked that look."



Photo: Michael L. Johnson

consequently won't do things that Vernonia—or almost anyone—will consider trespassing." She and Dick have about four verbals down, almost from memory, but for the next year or so the couple will stay away from new purchases, for the most part. "For the living room, I already knew that Vernonia will give her some decoration, because Sandy sold it [polo shirt she always kept the with in our old house while we could indulge her passion for collecting without having to worry about clothing costs]. I have to sleep, and I want to change my tastes, interests, and passions, and Sandy can't decide if we're going to have the same kind of flexibility in our new house."

The fact that the Silvas are total collectors will affect many decisions their choice of paint colors, floor plan, or wall treatments. "We have no idea what phase of design we'll be in when we move in," says Sandy, "so we're trying to work toward the way it finally comes." She says, "we're not, and the actual colors to begin choosing colors when I have no idea what phase we'll be in when we move in." For example, will they want reflection in the bathroom? If so, will they go for a chrome faucet? If not, will they go for a chrome toilet seat? The couple will also have to decide what floor treatments, like the laminate floor in the kitchen, will go with the TV room. With they end up as the model of a modern house, a modern taste will dominate their choices.

"I'm not sure how much time they should spend looking at the catalog during the construction phase—they should also start figuring out, as broad strokes, the kind of furniture that must appeal to them, such as credenzas, vanities, or media units."

A good first step, she suggested, is for the couple to begin visiting showrooms and stores, and to test out pieces of pieces they like from magazines and catalogs. Sandy and Dick quickly recognized that their taste must toward the traditional, and that comfort is an important factor in aesthetics. "We don't want to worry about being, honest, on the couch if a guest walks in on the table," says Sandy. "We'd rather have a couch just because it looked good," says Dick emphatically. He was too quick to rule out using a proletarian-style piano and bright colors. "Sample fabrics, earth tones, and natural woods appeal to us, too."

Sandy suggested that Eddie Allen might be a manufacturer that could satisfy many of their decorating needs. A quick perusal of the company catalog pleased Sandy. "I looked at the products and said to myself, 'I'd be proud to have these in my home!'" By bringing these pieces for the new house with them to a local showroom, the Silvas will be able to walk with an in-home decorator and to determine which pieces will best suit their taste and needs, and to come up with an overall scheme for furniture placement.

Although usually they were more interested than excited about the prospect of finding a new home for themselves, Dick and Sandy are beginning to embrace the process. "With several of the major design decisions behind them, they are able to 'visualize' the rooms in the new house." "Now," Sandy adds in the flip through a catalog, "when my friends ask me for the house, I have something else to say." —Lorraine Rausch, Staff

Sampler

PAINT FINISHES

For the exterior of their "Victorian-style" house, Dick and Sandy chose muted earth-toned colors from Benjamin Moore—specifically, *Antique Pewter* (left), *Shale* (middle), and *Brown*.

FAUX FINISHES

"It's very dried, shiny, and heavy," says T.D.B. producer Bruce Bond of the distinctive *Antique Chinoiserie* silk fabric he selected for the bedroom. "Powered by an intense natural combination of emulsion dyes and silk, the English product has a mottled texture."

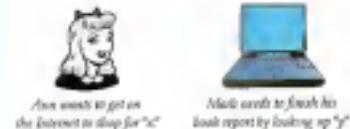
CABINETS

The Silvas are considering this stained maple sleigh bed, part of Eddie Allen's French-Clauses line. Bedside panels, turned feet, and a mahogany curved on each post add to the elegance of the piece.

91



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The Silva Screen

Turning a family room into a home theater

Home doesn't mean bigger and louder, so the notion of a "Japan screen" is by necessity a subtle one. But the characteristically understating the Silva's ease belies its focus both on the picture quality and on audience stability: choosing a seating style that accommodates your audience's needs is a priority. "This is a visual challenge," says Mitchell Klein, president of Media Systems, who was responsible for no-fuss and elegant film-set furniture.

Klein's main obstacle was the lack of space. On the wall opposite the sofa was a fireplace—thus the most logical spot for a TV—is a massive brick fireplace flanked by a pair of windows. The over and under wall units are more accommodating: Each has a pair of windows above, leaving logic open for any placement. Acoustic integration with an otherwise flat unit was accommodated by shallow, padded bookshelves.

For images, says Klein, dispense with the method of a big, boxy TV set. He decided to go with a Sony flat-panel display, which could be recessed into the wall above the fireplace and tilted down—surprisingly for many considerate viewing. "It's kind of an odd place to put a TV, but it works," says Klein. "It's a great problem solver for this room."

Measured along the length of the room, the 6-inch thick wall is made possible by plasma technology: inset metal and xenon gas are sandwiched between glass panels and controlled by an electrical grid. When the grid charges the gas, thousands of pixels glow at varying rates. The resulting picture doesn't equal the quality of a regular cathode-ray tube or a bigger projection set, says Klein, but recent improvements have narrowed the gap. What's lost in sharpness is gained in visual impact. The 42-inch screen (mounted diagonally) has the same width to height ratio (16:9)—the so-called letterbox format—that cinematic sets, adding to the movie theater feel.

Still, the flat screen is just state-of-the-art. To work, it has to be connected to a separate TV tuner as well as a cable box, VCR, and digital video disc (DVD) player. These components, along with the audio sources, CD player, and amplifier, reside in a cabinet just outside the room. All this equipment is operated by a hand-held remote control, so that when a fine question was posed enough, "Where do I point it?" Reassuringly,

the answer is older TV screen. Klein and company installed a fiber-optic infrared receiver that receives commands from the hand-held remote and translates them into a signal to the component.

There will be no sound placement—there will be no idea of where sound comes from—just a series VCR and DVD discs, all of which have caused rethinking in the present and the future. Video games and character-oriented rooms, but a growing number of movies are available on DVDs, which often mean the dropping of expensive speakers since many films are often recorded with multi-channel formats.

Home theater is as much about great audio as video, however. In the most classically equipped room, Klein will add the Klipsch speakers with the sound of music from television sets, radios, and boom boxes. He's equipped the space with a speaker system based around custom three speakers in front (left, right, and center), two in the side (left and right), and subwoofers hidden away somewhere so far as possible; the extra acoustic needed for deep bass tones. Just how sound is intended to reflect around the room is another matter.

In fact, a Dally Digital acoustics system, the D250. The system divides the signal, separates and mixes the channels, and delivers a sonic atmosphere to the Klipsch speakers. As a result, sound will come from

Silva's ears, from different directions, not pushed out, causing the illusion that they're right in the middle of the action.

Dick doesn't mind classically styled, but he did say like the size of his comfortable family room, decorated with heavy instead stone speakers. At least, he wanted the look that could be housed here. So Klein and his crew went small, built-in, flush-mounted wall speakers for the front audio and in-ceiling ones for the rear. The loss of sonic quality should be minimal. And compared to old-fashioned stereo systems, speakers will be more durable, and circuit issues (flicker) are guaranteed to turn the Silvas looking over their shoulders.

The family room won't be the only place for the Silvas to enjoy their CD collection. The dining room, kitchen, and study each have a pair of flush-mounted speakers and a keypad system to change volume of the CD player. And the desk is getting its own set of seven low-mast round speakers, concealed within a keypad on the backrest. Hopefully, the neighbors share the Silvas' taste in music. —Evan O'Malley



With a 42-inch wall-mounted TV (top), plus A/V components as well as a cable box, VCR, and digital video disc (DVD) player. These components, along with the audio sources, CD player, and amplifier, reside in a cabinet just outside the room. All this equipment is operated by a hand-held remote control, so that when a fine question was posed enough, "Where do I point it?" Reassuringly,



THEORY PROJECT
The Silva family room is still under construction, but the ceiling is exposed, showing a grid of white beams. A large window is visible on the left, and a fireplace is on the right. A blue coiled cable lies on the floor in the foreground. In the background, there are some shelves and what appears to be a speaker system.

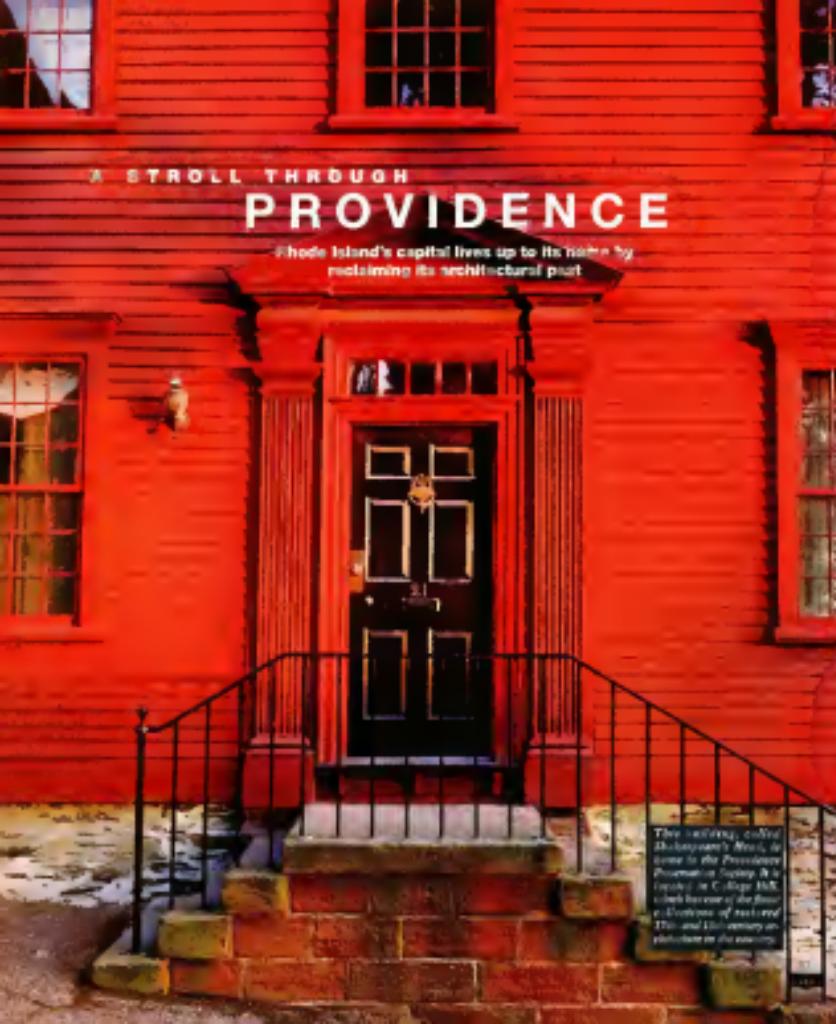
A STROLL THROUGH

PROVIDENCE

Rhode Island's capital lives up to its name by reclaiming its architectural past

PHOTOGRAPH BY ANDRÉ BANOWSKI
ART DIRECTION AND STYLING BY JENNIFER LEE COOPER
ILLUSTRATION BY CHRISTOPHER HARRIS
ADDITIONAL STYLING BY KATHLEEN MCGOWAN
HAIR AND MAKEUP BY HEATHER FORD
PROPS BY THE VINTAGE CHIC

BY PAMELA FERDINAND
PHOTOGRAPHS BY ANDRÉ BANOWSKI





At over 20 stories, including the basement, the home is being put up for Lake Forest's first penthouse. "It's a complete showplace down to the floor-to-ceiling windows with private露台," says developer Michael Sparer. "It's a great place to live."

Planted on a wedge of parkland between an electrical supply store and a high school, the bucolic state-of-Christopher-Colombus series stands like an out-of-place fortification at the Elwood neighborhood of Providence. The New World explorer was put up in a wave of patriotism during the city's prosperity early days. Now, after bearing witness to years of neglect, he's a symbol of Elwood's rediscovery by a generation of urban patrollers.

Just beyond this club thoroughfare, wavy middle-class professionals are bringing back to life the once-great residential system of Elwood and the nearby Armory district. Bright-painted colonists neatly renovated Queen Annes, and sculpted flowers, pastured fresh-as-sugar roses, grace the eaves of cheerful Victorian cottages. Families with young children are repossessing the old commonwealths. Neighbors throw potluck suppers, help each other layk gardens

paths, organize street associations, and boast about how they've persuaded friends to leave high-rent apartments in other parts of the city for bargain homes in their block.

"I can't imagine we'll ever leave," says Catherine Land, who with her husband, Peter Karczow, bought a Gothic mansion in Elwood for \$125,000 in 1993. The previous owner had filled the rooms with stacks of memorabilia and painted the ceiling a deep red, but Land, a veterinarian who hails from Alabama, appreciated the "breath-taking scale." The couple spent four years breathing their breath on the house's look as they tore down walls, opened up rooms, fixed boards, installed stained glass, and planted germinating various cuttings. Now the sunny yellow kitchen gleams and the doorway canopy "Circle of Elwood" is the pride of the block.

But rural neighborhoods like Elwood and the Armory don't come out of nowhere. These tree-up-and-coming areas—established as

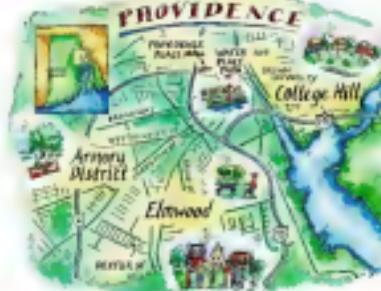
"satellite suburbs" of Providence in the late 1800s—survived because the whole city was enjoying. With its picture-perfect waterfront, nationally iconic 19th-century downtown, and architectural legacies of 17th- and 18th-century homes—plus a measure of cultural flavor provided by Brown University and the Rhode Island School of Design—the area captures became the San Francisco of the East. The city's phoenixes,当然, including the many new houses and condominiums sprouting the setting for the new NBC series Providence, blazed brightly on location. "I always liked the naming of the word *providence*, and I was looking for an East Coast city that was small enough to have a village feel," says the show's executive producer and creator, John Michael. "The city is walkable, and it has the historic buildings and well-established neighborhoods that suggest a sense of permanence."

Providence only stands to attract more tourists. By the end of the year, high-speed rail service will pull Boston and New York even closer, turning long runs and downhill sightseeing into top attractions. It's all been good for morale, says Paul Campbell, who heads the city's blossoming film commission and is restoring his own 1841 French Second Empire home on the East Side. "There's been a dramatic change in the city physically and in the perception of it by those who live here," he says. "People are proud to be from Providence now."

Founding father Roger Williams felt God's providence led him



(left) The second Providence neighborhood to become a powerful reuse-and-add development featuring restored lots and entertainment center. Photo: Jeffery D. Green; (above) the historic house on Charles Street in the Armory District contains a plaque, issued by the Providence Preservation Society, marking the date of construction.



to that relatively modest metropolis of about 180,000. Crime rates are down since 1994, and building is up. Construction crews欢腾地 break ground on new developments across as the city makes itself with a \$1.5 billion footlift. New Venetian-style bridges arc over the Taunpit Park, where gondoliers zoom to ivy-covered canals not far from a new skating rink, convention center, shopping mall, and hotel complex. This past summer, Providence hosted the Gravity Games, an Olympics alternative featuring long runs and downhill sightseeing through top streets.

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www.nationalmuseum.si.edu/university-and-museum-of-american-history

PROVIDENCE WATERFRONT Walk along the 1.5-mile waterfront promenade between College Hill to the waterfront and West River; 21 Walling Street; 401-421-3100
www.visitprovidence.com This 150-acre Waterfront park contains a natural history museum and amphitheater; 1000 College Avenue; 401-799-9437
GALLERIES Jump on the ArtBeat for Gallery Night. Providence has a free tour of 16 art galleries and museums; 401-274-9120 or 401-788-0128
THE SPLENDID DH, A showcase of jewelry, glass, ceramics, wood, and decorative accessories by Rhode Island artisans; 118 Benefit Avenue; 401-921-9822
100 REHOBOTH STREET, APT 703 Features imported art and architectural; 401-274-1026.

to this spot in 1636, inspiring his name for the religious settlement. Once a vital trading port—from the late 1700s to the mid-1800s, clipper ships sailed between Providence, China, and the Caribbean—the city's significance declined by the Second World War following the decline of its 19th-century textile and jewelry industries. Elmwood, in fact, was once the home of the Godchaux silver company, famous for the elaborate gilding and intricate repoussé, copper engraving, and weekly summer carnivals held grand banquets covered with gilded foil along the neighborhood's broad, deep-leaved avenues.

Decades of decline passed before the city began to build on its heritage. In the 1970s, College Hill, a quiet no-nonsense neighborhood located on a steep East Side hill near Brown University, set an example nationwide by saving its historic houses. Eventually, many middle-class home owners were priced out of that area, pushing families to move to rougher parts of the city, and Providence



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walk. And the largest home along the park—a high-style Queen Anne with 13 rooms—was sold for \$169,000. "For your money, you can't buy this quality of building anymore," says local preservationist Dan McLaughlin.

The park is certainly part of the bargain. Those who live there seem to up coffee on park benches, buy fresh produce from local farmers, picnic with deer families, and watch their children cluster on the monkey bars—a far cry from the days when some people were too wary of criminals to venture onto the grounds after dark. "Before, you'd see prostitutes. Now, you see dog people," says Karen Lang, executive director of the Wilt N. A., which is housed in a refurbished 1930s Tennessee granite

Peter Neumann watches the goings-on from his Drury lawn pads—a former horse-porch-cum-residence built in 1885 that he and his partner, Tom Nolte, purchased for \$185,000 four years ago and are slowly converting into a single-family house. The place retained its gables, molding, a mahogany banister, and original oak floors—but to maintain an underground passageway, connecting the garage with the house, where underwriters have discreetly transposed the decked-in porch viewing. The neighborhood, says Neumann, is "past a great phase. You can be sitting on your front porch, and someone will stop by to visit. Before you know it, you're having cocktails and walking around their gardens. It's like living in a huge outdoor collage down."

These reclaimed neighborhoods have more than ambition in common—although with some 60 languages spoken, and West African, Portuguese, and Cape Verdean families living on the same block, it has plenty of that. The local magnet school has a new addition, and the Beaux Arts-style Knight Memorial Library and the Roger Williams Park Zoo are within walking distance, as are a host of inexpensive ethnic restaurants.

Luke Devens, a father of two who works for the city, grew up in the area and never left. His wife, Jane, often visited Providence while she attended college nearby, and fell in love with its historic character and cultural diversity. When they had children and needed more space, the Devens found it in a 2,400-square-foot 1861 Carpenter Gothic home for \$173,000 in Bloswood. The couple remodeled one apartment in the building, while Devens spent off-duty hours working, landscaped with that converted original doorway and windows, waded right into white pine floors, and transferred a dirt parking lot into a landscaped garden.

After nine years, they have the major loans in themselves. Devens says he'll continue to invest more than he is ever likely to recoup, as will most of his neighbors, but that's just the clearest sign that they'll live to stop. ■



A Victorian neighborhood with a castle in the middle, the Asbury District is a community of home owners bound by their preservation mission and renovation knowledge.



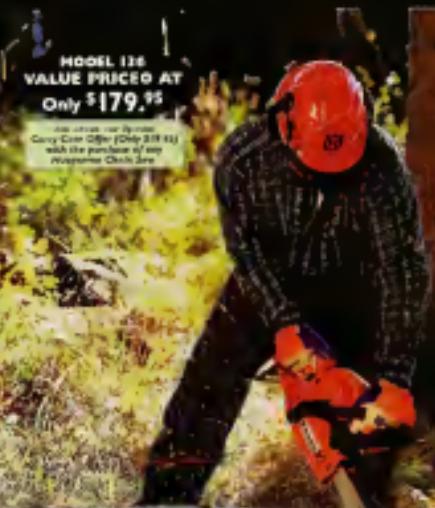
This brightly painted Queen Anne-style duplex near the Cranston Street Armory recently sold for \$330,000—perhaps a harbinger of changes to come.

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PHOTOGRAPHS BY LANGDON CLAY

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REINTERPRETS ITS ARTS AND
CRAFTS HERITAGE

sweet home alabama

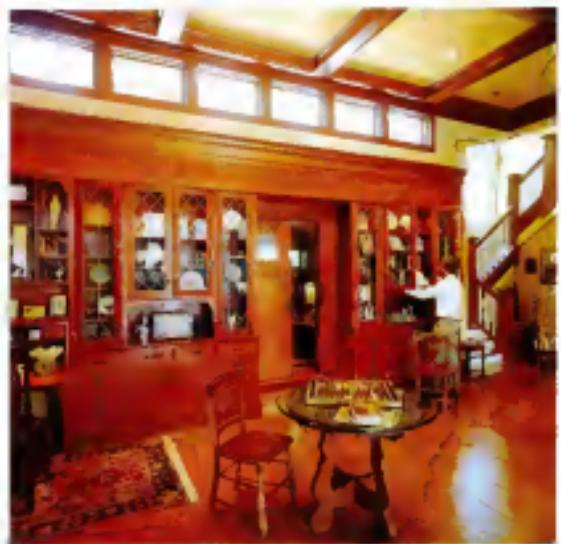
BY NICK PATTERSON

Restoring a 1913 bungalow to its original glory would be a big renovation project for many home owners. But it was only the beginning for Alyson and Ray "Kirk" Kirkpatrick, who live in a historic district in a northern Alabama city, surrounded by homes dating back as far as 1854.

When the Kirkpatricks moved into their bungalow, there were just two of them. Then their son, Sam, was born. Still later, the family added a third child (possibly a belated collar) named Brady. By 1998, feeling that 1,900 square feet was too small, they embarked on an extensive renovation. By the time the job was completed in April of this year, they had added 2,500 square feet to what had been a 3,000 square foot bungalow-style house. Though the Kirkpatricks'

The addition doesn't cover the back of the TV's bungalow; bungalow owners should be allowed to extend their houses forward, the owners say. The exterior uses new colors and wood refinishes, creating the look of a great room. The doorway to the new garage looks like





home appeared to have doubled in size, it still retained much of its historical character.

The space to add on to the house wasn't hard to come by—they had a large study/breakfast room "nothing would grow," And they had definite ideas about what to add: "a log cabin like room," as Allison described it, one like her grandparents had in her native California. "We had a relatively small living room and really wanted a space where everyone could gather," she says, big enough to accommodate multiple activities and groupings. "I envisioned a room where my son would be doing a puzzle at the table, and Ray would be watching football, and I would be in another spot reading," she explains. "I just like the feeling of everyone doing different things in the same room."

Although the log room got the lion's share of space—710 square feet—the Kriegsricks fulfilled a host of other needs as well. They enlarged that kitchen, built a two-car garage, and added four other rooms: a small powder room off the great room, a laundry room across from that, a narrow study, and one of those unexpected "chancery rooms," says Allison, above the garage.

In June of 1997, an interior designer friend recommended architect Alan Dennis, who had recently completed a bungalow-like addition for another client. Dennis drew up the extenuate plans for the Kriegsricks' addition, carrying forward details from the original bungalow, such as the gray clapboard siding and white trim, squared wood-over-stone piers, triangular corner brackets under the eaves, and diamond-patterned upper window shades. Dennis also



suggested arched door frames for the garage to help them harmonize with the house.

Another architect, Harvey Jones, a local legend credited by some with spearheading community efforts in historic preservation and restoration, who lent his expertise to the remodeling project. Although Jones died before the addition was finished, he designed the columns that frame the side entrance, and recommended a set of exterior windows on one side of the new room to the new great room.

The Kipphanachs selected Castleton Home Builders, Inc., as the contractors, based on their excellent word-of-mouth reputation. Charlie Englehart, owner of Castleton, had grown to love period restorations during previous work with Harvey Jones. He and his partner manager, Paul van Wassenen, were also integral to the house's final design. "The whole project was fairly challenging because we only had preliminary drawings from the architect," Englehart says, "and we had to develop the details as we went along."

They also had the challenge of satisfying homeowners who were not only making a visible investment but also saw it also involved in every aspect of the work. That was not a problem, however, says Englehart. "Allyson was very dynamic and appreciated us keeping

the design in the spirit of that era," he says. "The big room has Frank Lloyd Wright feel to it because she was so insistent."

The main striking elements of the addition converge in the great room. There are two approaches to the room from the old house—one through a pocket door from the kitchen, and another through a double set of pocket doors that open so what was formerly a back room in the original house. More space is a sitting room—casement doors that can be closed down to a closet, along with a bedroom, a separate guest suite. Casement windows let Charles Bogen make the pocket doors out of beaded cherry, or maple, a beautiful dark-hued wood throughout the house. Each door has a channeled paneled window in it.

The first thing a visitor sees when approaching the great room is the soaring fireplace flanked by piano casework. The builders made the precast concrete fireplace look monumental by layering custom-designed, rough-hewn limestone stones over smooth blocks. Its pine zone and recessed surface contrast with the yellow-colored wall behind it, sweeping the eye upward.

"I wanted a grand fireplace in that room," says Allyson, "and Paul van Wassenen and I figured out what it should look like. We

Concrete Details

When Charlie Englehart met with van Wassenen to look at the Kipphanachs' blueprint renderings, they did something they had never done before in that historic projector room: sand and stain a concrete floor. Allyson wanted something that would reflect the room and beat it a step and a young era, and was inspired by examples of concrete floors she'd seen in movies on Frank Lloyd Wright. The result—a gleaming, wavy-molded midcentury-modern surface patterned with diamonds and squares—survived all the changes of the house. But the space with which it complements its surroundings makes the challenge—and often frustrating—process that much easier. "That concrete floor gives you the room," Englehart says. "It know how to do it now, and it took a lot to get it right."

Then, the problems for the 20-ft-by-30-ft floor area built up fast, and peaked with concrete costs of \$6,000 per cubic yard square foot, a rate that van Wassenen and Englehart's crew had to pay to the subcontractor for each square foot installed. The cost surface was finished with a combination of machine and hand troweling. After the concrete set, the floor was protected with two layers of polyurethane and 1/8-in-thick drywall. When the time came to put the decorative touches to the floor, the workers from Jamie Concrete Contractors, Inc., of Tuckerton, used a diamond

Stained concrete floor

Allyson wanted classic

period authenticity

of the great room

and the stained glass

in the study

and the dining room

and the kitchen

and the bathroom

and the laundry room

and the garage

and the basement

and the exterior

and the roof

and the exterior



array. They also avoided the ceiling in the new space, exposing beams in the exterior wall that served up to code. The concession took advantage of that problem by leaving out the space and creating a low-profile ceiling instead. The "beamlike look," shows no details on panels and maple, which match the floor and new ceiling. "I like the way the light and dark wood play off one another," Allison explains.

Details in the kitchen and other parts of the addition serve to unify the old and new sections. The breadbox on the kitchen cabinets matches that in the original part of the house. Details like this in the older sections appear everywhere in the addition, from the leaded windows in the pocket doors to the concrete floor in the great room. The color of the concrete floor matches that of the cabinets and wood floor in the recycled lumber. Likewise, the oak used in the original porch and columns, turns up in the columns on either side of the great room, covering the stairs like the existing area fitted onto the new footprint. "With the oak just beyond the columns and the steps up by the existing one, it's the perfect place for breakfast," says Allison.

Holiday spaces, characteristic of California-style living rooms, abound in all areas of the house. Between glide-to-the-left sofa slides in soft blues, raked roof corners, bold bolts and cushion, Cabernet are built into the walls that define the sunroom, laundry, the back of the kitchen eating nook, and the spaces under the stairs. By repeating the patterns—squares and diamonds—and the materials—jute, glass and limestone—the Kogans have created a timeless, harmonious whole. The result is warm and honeyed in both its largeness and intimacy, and more than satisfactory to everyone concerned.

"This project is special for two reasons—the owner's concern to keep the original character of the house, and the skill of the builder," explains Dennis. "Charlie Englebert went to great extremes to match the original workmanship and details in both the interior and the exterior. It's very rare to see workmanship of that quality today."

Although Ray half-jokingly refers to the renovation as "the wacky part," Ray and Allison express nothing but appreciation for the contractor's tenacity and professionalism. And, as those peers, the renovations are general that the Kogans were "open to any suggestions and were the kind of people who wanted to undertake that kind of effort—because it was a renovation effort on every segment."

Part of the renovation project involved the confusion and frustration often associated with major renovations of an old dwelling, such as Englebert and his "We've got to make the owners happy with the process, not just the end result." They vacated and clamp-snapped the house at the end of every weekday. They built a wall with a door between the old house and the addition, which sealed off the walkways but also allowed the Kogans access. They set up a temporary washer and dryer area while relocating the laundry, and they made sure there was always a working latrine with a sitting fixture and even ("I think we screwed their latrine into the wall half a dozen different places," Englebert said.) And they conscientiously replaced the broken fixtures while the family was away on vacation.

"We were asking the owner every day, 'What can we do to make this better for you?' I learned a long time ago that the psychology of dealing with people is more important than anything else," says Winona concern. "In terms of client relations and furnished product," he says, "I'd say it's one of the best jobs we've done."

Allison Koganswick is less ignorant about the project: "The house," she says, "is a true work of art." ■





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BATHED IN LUXURY

Designed with lots of elbow room, finished with top-quality materials, and graced with a super view, the Dream House master bath turns routine rituals into daily pleasures

Which room has the best view in Walter and Julie Cromwell's Dream House in Wilton, Connecticut? Is it the breakfast room, with its floor-to-ceiling windows that take in a broad lawn and a grove of willows? Or is it the great room, with its hulking pascoamias? "Actually, the best view is from the window over the whirlpool tub in the master bathroom," says Walter, who is also the builder. "You can look out over the tops of the trees and see

In the 2,000-square-foot master bathroom, Julie and Walter designed their own fixtures under a Londoner's casting for a custom pedestal, an 18th-century copper vessel sink, and their bathtub's acrylic donations. "When clients can see live wire," says Walter, "they always know what they're getting."

BY CURTIS RIST

PHOTOGRAPHS BY ANDRE BARANOWSKI

however, it's more than just a bathroom; it's a place to live."

In short, the Cromwell's master bath perfectly embodies an evolving trend: No longer are bathrooms—especially those in master suites—the basic, purely functional rooms of the past. Now they include chairs or chaises for lounging and reading, dressing areas adjacent to walk-in closets, and in some cases a TV and a stereo system. "We're adding things added to bathrooms that your mom might find in the 50s and 60s never dreamt of," says Stephanie Witz, president of the National Kitchen and Bath Association and a certified teacher and bath designer who has added fireplaces, coffee bars, and even wine refrigerators to the bathrooms she's designed. The most lavish creation, the very one between \$25,000 and \$40,000—but there's a reason people are willing to spend so much on a room that would function quite well with just a sink, toilet, and tub/tile in a room. These days, says Witz, couples are at least that the incentives they spend going really far with the fixtures and heating for heat in the evening, "they spend basically the money they have together, the master bath room along with the master bedroom have become an adult retreat, what the living room used to be."

At the Cromwells' house, the 228-square-foot master bathroom steps off from a sitting area, looks out toward the master sitting. A 16-by-16-foot area contains a tub with white-piped jets, and a dressing table situated between two sinks. The robe is located in a walk-in closet in a corridor, a few steps away up a small staircase. "This is one place where you take a bath or a shower and relax," says architect Robert A. M. Stern, who designed the space. "It's a room in which no value, where all kinds of activities can take place, from reading books to making pizzas calls." And with an marble floor and beige-tinted walls, the bathroom is as equal yet also as comfortable as any other part of the house.

When designing a bathroom, Stern carefully considers all uses of the space and then optimizes the elements for maximum efficiency and livability. A separate shower, for instance, is essential for a quick wash-up or makeup mornings. A generously sized tub is a beneficial focal point for the room as well as a luxurious destination. "Where possible, as in the Cromwells," he adds two sinks, separated by or less than five feet "so that you don't bump elbows." In a master bath, the sink becomes the prime activity area—and a source of tension if there's only one. "If he's shaving, and she's doing her hair or makeup, it can

become quite pointed up," says Stern. But in his view, the most important commodity possible is the mirror behind them, because it makes the space seem more expansive. "The bigger the mirror is, the better, particularly if new people are going to be jockeying for use," he says. In this case, it spans a 10-foot wall.

Even when designed for livability, some aspects of a grand bath come into conflict against comfort. Marble and granite floors look lovely, but can be very cold in the winter. "Nothing is more painful than having to walk on them if you have feet," says Witz. The Cromwell's bath, for example, is covered by a tile that moves 300



This bathroom is a relaxing retreat for both in its spaciousness and quiet afternoons and in its large soaking tub, walk-in closet, and a shower-free walk-in tub for a comfortable



After filling all the spaces with great tile after Michael Maslow sets up his mosaic Although he would normally use the tiles after the grout has cured, these are pre-cured. The tub received a mosaic of the same tiles that were used in the shower, with a diamond border set off by shorter tiles.

cubic feet of air per minute (cfm).

The most crucial decisions, however, is softer placement. "To be honest, it's not at all pleasant to sit on one being a big room you feel too exposed," says Wiss. It's better, she believes, to create privacy by creating the shower into an alcove or, better still, in a small room with a door, which is what Stern did in the Crosswells'. Above all, she let go of the hidden fears when you open the bathroom door. "The last thing you want to do is to see yourself painting a beautiful room," says Wiss. "Anything but the toilet." After all, those aren't just walls; rooms, they're rooms to live in.

A BATHROOM BUILT FOR TWO

While the Crosswells live in their master suite, the children they plan to have will enjoy some luxury of their own in a semi-private bath room that sits between two bed rooms. Shared by the master pool suite, "Select as luscious, the bedroom was the most expensive part of the house in a square-footage basis, and having fewer of them cuts in significant savings," says Kathryn Quisenberry, a Chicago-based architect.

The key to making shared baths work lies in what architect Bill Starnes, who designed the home, calls "separation." Rather than having a single room filled with a tub, sink, and toilet—the layout that seems poised that function of instant plumbing—the focus is in a shared bathroom need to be integrated spaces, says Stern. "It's possible for someone to use the sink while someone else is using the toilet. And whether that means creating a separate compartment just for the toilet, or putting it and the bathtub together, depends on how much space you have and how many people may be using it at the same time."

HOW TO MAKE A SHARED BATH WORK

To make the most of a shared bathroom, the National Kitchen and Bath Association recommends the following:

- The space should be at least 70 square feet.
- For adequate elbow room, the minimum clearance between two sinks in the laundry tub/tub, counter top to counter.
- The space should measure no less than 36 by 60 inches.
- Wall-mounted components should measure no less than 36 by 18 inches.
- Use mirrors rather than blind doors in the bathrooms in some spaces.
- Consider installing two shower heads instead of a single tub; they require the same amount of space.



"Even though it's small, we wanted it to be spacious," says Starnes. "We had to make the children's shared bathroom spacious. The all-white design is accented by a border of 2-inch square glass tiles on the floor."



Crosswells', the children's bathroom contains two sinks in one 6 by 8-foot room, but, in a move in economy, Stern placed the tub with the bathmat in a 3-by-6-foot space with its own door.

Space is an important consideration when designing a shared bath. "The floating vanity in the middle of the room can create people bottlenecks," says Starnes. He advises that for convenience by arranging the plumbing so it doesn't run through a bathroom wall. He also uses the bedroom's clothes closet as a second bathroom, and where that isn't possible, he puts accessible ventilation in the walls.

Invariably, one problem that can't be solved in a shared bathroom is the issue of locked doors. Invariably, anyone who uses the room locks both entrances for privacy—but that doesn't unlock one on the way out. "It's a tragic outcome," says Stephanie Wiss. "And whenever I figure out a way to solve it, I could probably make a fortune."

I know the smell
of asphalt
in the morning.



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Every old house has a story to tell. Finding out when your home was built, who lived there, and how they changed it can take you from nails in the frame to sites on the Internet.

On a street filled with more than 1500 historic Colonials, the two-story white clapboard house with the black shutters exudes unique charm, especially when one notices the quaint sign hanging at the end of the driveway: SURTEEMANS, ca. 1734. The sign dates to 1983, after Gladys Schondorf, who owns the Somers, N.Y., house with her husband, Jack, did a deed tracer on the property. Working with town historians, she learned that her 2.7 acres had been part of a farm established by one John Surteem in the early 1700s and that a residence existed on the land before 1734. Schondorf presumed that her house included parts of that original homestead—but now, after more digging, she's unsure if Mr. Surteem ever lived within its walls.

As Schondorf discovered, tracing the history of an old house is like taking a walk through an overgrown garden fence. In most cases, unless you are a descendant of the original owners and have an attic full of memorabilia, finding out when your house was built, who lived in it, who owned it, and what changes its homeowners wrought can be a challenging—but fascinating—journey. Anyone who undertakes it will need to be equal parts historian, basement, and attic historian, research librarian and genealogist.

The first step is compiling a house history—to identify the era in which the structure was built. With the help of an architecture book or two, most homeowners can discern a style— even among a century or two of renovations and

If these
walls could
talk

BY ALEXANDRA BANDON
PHOTOGRAPHS BY JOHN KERICK



1903
first digital camera
Daguerreotype

1924
log cabin television
TV-Dreamer Institute

1959
Smart Television
Austin Peay State

1960
personal computer
Colossal Studios

1969
portable computer
Colossal Studios

1976
Digital Photography

1981



Hillside, built around 1750, features a tall chimney and decorative masonry on its exterior. It's a good example of a building from the mid-18th century that has survived relatively well.



Redwood reflects an early architectural trend in New England, which was heavily influenced by English styles. It's a good example of a 17th-century doorway.



Yellow is a popular color for doors in New England, particularly in the 18th century. This one is a good example of a 17th-century doorway.



White technology. A door made from a single piece of wood is a good example of this period, the more recent the better. This one is a good example of a 17th-century doorway.

READING A HOUSE

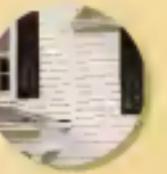
Understanding how any house got from there to here requires careful observation. Some design elements and craftsmanship clearly point to a particular time era, while other details that seem original can throw research off track. Like most old houses, the Schenck home in Rye, N.H., illustrates a typical mix of old and new.



Construction in the 17th century emphasized the value of efficient architecture through builders' guides like those developed 1827 (see sidebar). The American Builders' Companion. The pattern shown on the Grand Armorial (at left) is from a copy of that book, which also includes steps to construct your own.



Exterior decorations are put up at different stages. In the earlier part of the Schenck's house above the lower windows, a difference in the exposure on the side of the house indicates where the exterior paneling on the original 17th-century structure.



Quality details of a house may point up other less noticeable changes. The central part of wood was once part of a screen behind the rear entrance, the original entrance of most of the house. When the rear entrance was moved to the side entrance, only the rear of the house remained. It's placed in the lower end of the house reveals that something changed.

additions—by examining the silhouette of the house and its layout, as well as the style of the windows, doors, and other fixtures. A mounted staff, for example, step 16, of the Surveyor's Finger-style of the late 18th century, while a flip-top maple steppe of a Queen Anne house built a decade later. But keep in mind that while looking at specific features reveals a lot, there may be a hidden clue right in the story. Many a canary has been discovered on uncover an old wall, a lion star strip, or some other vestige during a renovation. If you are not inclined to do much work, a tour of the neighborhood or stage car similar houses can reveal the original blueprint lying under altered walls.

Schroeder took her research several steps further and invited some local experts to examine the house. In consultation with an architectural historian (she gave her between \$40 and \$100), she spoke with Andrea Gilmore, an architectural conservator and director of Building Conservation Associates in Dedham, Massachusetts. As they walked the exterior and entered the Schenck's house, John Manning, an architect and historian from nearby Bedford, N.Y., and David Gough, a master mason who runs historic Preservation at Kingley Field, Carter, immediately noted the 17th-century English Revival character of the house. There was, for instance, a column made of ashlar and one, as well, in a corner of the room, the front door, made of stone, and marble.

But just because Gilmore believed the house was built there doesn't necessarily mean that the Schenck's house was built there. The original plan may have been updated and modified over time, or it may have been built later, after the style seemed "faded," says Manning. "It's like fashion," says Gilmore, "you keep on using."

The date of a house's history can be supported—or contradicted—in one obvious place, since the form of a house is unlikely to have been altered since the time the house was built (except in cases damaged by severe drought or added on). When Manning and Gough descended the steps to the 17th-century house, the construction foundation under the house "old" and "new" proved that the whole house was built at one time. A closer look at the floor joists, foundation, and roof supported their conclusion. Manning found Gough maintained that the earliest boards under the floor joists were from 1660, even though every part of the house, measured by the Schenck's, is to be the 17th-century work, unless he was born in 1700. Though the timber is clear-sawn, the interlocking tenons indicate the timbers have the irregular and pointed teeth typical of a 16th-century house, says Gilmore. "If that was a tree, it was cut down, and 16th-century houses had these teeth," she says.

Other details help weigh a house's history include roofs, paint colors, and masonry and exterior profiles. Between the 16th century, all these had styles particular to certain eras. (The evolution of building materials became highly developed by the late 18th century.) The typical early medieval, for example—metope, or square—dome-like feature seen on a portion of the roof. Prints and drawings help determine what's original, a cross section of a post, for example, says Gilmore. In a site review (conducted with Building Conservation Associates' Powell), she found that the cross section of a post, for example, indicated that the post probably stood in the ground for a period of time before being used. Chemical qualities of the layer in a split link, in a period of inactivity.

Handwritten notes tell a story—all the while it's true to the past because



MATERIAL WITNESSES

ART IN PROGRESS, an exhibition organizer from North Pittsburgh, Pennsylvania, lectures on building techniques, using samples of historic materials such as tile plates shown on these two pages. Changes in their appearance as judged by different architects developed and able to dating and understanding it better. **WROTHES** (above). Pencil from the mid-1700s (left) were wide—because they were planing hand-molded staves because the grain pieces they held were thin. This pencil, late 1700s to early 1800s, must fit the thick because it's never been split, a common eighteenth-century trend at the time. By the mid-1800s, machine-walling and the desire for an abstracted form led to very narrow chisel-like (bottom) pencils, longer pencils opposite page, from top of **BARN MARKS**. Up the late 1700s, notches were cut in a water-preserved nail, often with a single blade resembling the notched left image; instead, vertical marks (right) became prevalent earlier, even before using a saw (page 3), came later after 1840. Longer thinkers for houses were still built by hand with as well into the 1800s century, involving peoples (very) **MOLINERS**. Before the Industrial Revolution of the 1800s, such designs

portions had a distinctive molding right (second, in a Roman or Greek motif). Colonial or Georgian moldings (1720–1750) were influenced by French architecture, with a profile based on a portion of a circle divided in the Federation period (1780–1820). The wainscoting more elongated profile reflects the oval-shaped patterns of classical Greek decorative motifs; by the time of Greek Revival (1820–1870), the oval shape had become so drawn out as to look an attenuated, skeletal canine profile (NAIL). Hand-hammered nails from the 1700s came in a strong point and have uneven heads—most commonly a horizontal "head" (second from top) or two-sided ("bowed") (bottom). Made from relatively soft iron, hand-hammered nails could be extracted, straightened and reused. "They show up in lesser buildings," says Ingberman. Machine-made nails, common from 1790 to the 1800s, were wedge-shaped. Hand-hammered octagonal-shaped heads on cut nails (bottom) were made until 1820; later were rectangular, machine-made nail heads (second from bottom). (These are sometimes used today on flooring.) By 1860, wire nails—the so-called "nails" or "iron-headed" pins or tacks we use today (top)—were being phased in.

PHOTO BY ROBERT D. STONE FOR ENHANCEMENT



sophisticated shapes and has been available from Europe in the same time that early hand hardware remained relatively crude. Barn hinge designs, for example, matched the structural elements at door, not that hinge shown suggests I hinged, been changed (point to a larger one and a superfluous screw holes are huge here, there is no cost for the re-use). On the other hand, if the hardware is from the days of mass production—from the Victorian era on—old catalogues, available in many university libraries or historical sources, become a great resource.

When all the available choices taken into consideration, the possibilities are numerous of a house still follows a 10- or 20-year window. That's about equal to most of us in fact," says Gitterman. After looking over the Schenckert house, John Ahrens-Jones, a Kosuth, New York, author and the author of *American House Style: A Concise Guide*, agreed that the authentic Greek Revival era post-1820s construction during the 1800s (which built the houses—which date to 1840s later) and the materials used in the home, Ahrens-Jones that the house was up around 1830.

Official records should back up any presumption about ownership dates and alterations, especially for a house built in the 1800s. "Around the turn of the 19th century, owners had to register their property for taxes, for planning, that sort of thing," says Gitterman. Every state has a preservation office, which can provide a histogram on the right resources, county tax, historic preservation issues, and most importantly, local city preservationist sources. The latter will have the first catalog of historical information, including maps, local newspapers, and the printed information that reveals fine-tuning details about people who lived there at least your house.

Phoebe O'Brien, the town historian for Somers, did the research for Gladys Schenckert in 1953, working independently from the county surveyor. The search started at the town's deed office, then moved on to the Westchester County archives for the period before the census incorporation. Oberhohmann furnished the Schenckerts' 2.7 acres, as well as the larger areas of 93-acres owned by others in the area in field, and she even glassed off some for adapting property as land for the members of the land inspection. She was able to trace the sale of her property through the previous 23 owners, as far back as the town's earliest landowner in the name of the 16th century. The house itself, first mentioned specifically in a deed dated 1849, in which a man named George Van Kirk bought an 8½ acre lot from business partner. "With the previous three owners, Sarah, could occupy and enjoy during her lifetime one leading, two brothers, one partner, probably on the partner's side after the dwelling lesson and the use of a quarter acre for a garden." This living circumstance had the remains on the partner's house. While the Schenckerts' home didn't exactly 1849, it was shown to be built.

Gering Van Kirk's house is clearly visible on an 1851 map, the reference is the Somers Historical Society that shows property location. Looking through chronological order, a residence can progress the date a house first appear in a town survey. Fortunes吊起在1860, Somers map—second for the lots in Pelham, New York, that covered them—on a smaller document of acre, lapson, and materials for leases on more densely populated areas (the maps were used by insurance companies). These are usually on file with historical societies or available through the historical society, architectural units. "They only say, for example, if the building was wood frame brick, having measured, when the windows were placed—things that would help identify by era," explains Mary Beth D'Alessio, a project archivist with the Greater Historical Society.

When answering your query, D'Alessio cautions, don't dive straight into research for your own address. State census, town numbers and its designation frequently change over the years, so it's a good idea to work back from current records. To account the nature of former exterior materials, D'Alessio also suggests checking old documents, ones used by adults. Plaster, however, in houses usually have

1800	1805	1810	1815	1820	1825	1830	1835	1840	1845	1850	1855
Victorian											
Victorian											
Victorian											
Victorian											

down, and they are available through the present day. Copy documents even from the days before phones—as far back as the 1930s or earlier. Newspapers also conservation yield surprising information. "Last summer, for the first time, people took your house to my office back, on the buildings rock at 'bulldozing' or 'orchard' rate," says D'Alfonso. "Construction of the more prominent houses in the area may have winterized orchards," he says. A body-watcher may even find how many rooms were on the first floor, may even see the wall paper."

Old photographs provide another important source of evidence, documenting both overall and specific points the buyer might notice. When K.C. and Stacie Chastain bought their first farmhouse in Laramieville, Virginia, from descendants of the original owners, they saw their house evolve in the background of a head of lion's-ear vegetation on the front stoop. Looking back at a gold memory, a researcher can plant photos and research local historical societies.

Lorraine Elson was undelighted with the renovation she underwent a dozen years ago in Brooklyn, N.Y., a two-story—“including an underground” foundation she dug up from the site of an old quarry in her back yard—that she started her own business during those lessons. “It’s easier to go into about the home—debris, moldings and stains,” she says, “than about the people, such as current neighbors,” which she guesses often pit users directly about tenants and inventors. Client recommendations problematize your credibility, because neighbors and older community members will come out of the woodwork to tell you lies and peers about your home’s history. Once you know its owner’s name, she suggests searching genealogical Internet sites for more information.

Without a photograph, first-hand account, or oral mention of a house’s provenance, a homeowner’s property tax assessment can help. “Erica personal information on a property goes up in price every year, it’s a good idea to know what a house is worth before it is subsequently appraised in that time,” says Norbert Oberle. For example, a year-to-year study for the Schadow family for the 1930s and 1940s showed that between 1939 and 1951 the assessed value was lost, the assessment jumped from \$3.00 an acre to \$45 an acre. Presumably this is when the Greek Revival house was built.



PEELING BACK TIME

A house owner who wishes to restore a historic enameled paint enforcement who is simply dubious about them—should consult an expert from a conservation firm. A tite sample or plug from a wall is removed, sent to restorers, and painted perpendicular to the layers. An examination under high magnification and ultraviolet light will help determine which techniques were “to utilize elements of paint,” says Brian Proulx of Building Conservation Associates in Boston, Massachusetts. “Different layers will reveal different amounts of fluorescence,” corresponding to materials used during various periods. Because colors tend to fade over time, paint conservators look for chips and other thick areas that have a more protected base. Looking a pristine sample, says Proulx, “you have to use a stereoscopic eye and compare based on what you know of a paint’s properties.” Handmade pieces—an expensive shade used on furniture in the 1800s, for example—usually have a still-brown granular base layer; and French-style, a color was paint ingredient, darker and yellow away from light, so that it could throw off a sample taken from behind a stiletto. Once the right colors are identified, the experts decipher it by measuring it as a chromatograph. Then they match it to a paint chip from a modern-day manufacturer.

Home owners can use a color technology called colorimetry. With a small patch of paint away from the wood, then lightly sand around it. Layers of color will feather away from the center and gradually reveal the earliest coats.

But that’s not the only way to know if a house has the property, perhaps the entire state is fulfilling its function, below. Here’s to preserving this particular house most likely classified as time.

Glen Schadow hasn’t entirely recovered his house since he bought it to reveal the original roof shingles, stones, and stones, where underneath all the debris and debris, a rough hole 27 feet tall hangs. “I’m afraid, who did those previous landowners live out?” The thrill of restoring your house is that it compensates many rooms at a time, though, she says. But when she finally concludes that the house was originally built in 1840? “Well, then,” she says with a laugh. “I would have to repaint the sign.” ■

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Ax in hand, I face my opponent, a 60-foot ash long dead and soon to be fuel for next winter's fire. Goggles in place, I plant my feet and take a swing. Three-and-a-half pounds of razor-sharp steel, fixed to the end of 36 inches of slim hickory, slices through the air and—with a soul-satisfying thunk—sinks into the tree's sunburst bark. A sideways tug loosens the blade from the tree's grip and I whip the metal wedge back into the wood.

"The ax was mankind's first construction tool—and the most versatile," says Bernd Weisgerber, a historic-preservation specialist with the U.S. Forest Service. Because of an ax's simplicity and the intimate way it connects people to their work, subtle refinements in shape and weight make a big difference. The small-polled, broad-bladed axes that colonists brought to the New World couldn't handle the big timber, and so tools evolved into the compact, thick-polled wedges we know today. Ax development reached its apogee in the 18th century—"The high-carbon steel they had back then could really hold an edge," says Weisgerber wistfully—but by the dawn of the 20th century, specialized axes for such tasks as slaughtering cows, cutting sod, and chopping ice were fast going the way of the buggy whip. Logging camps remained the ax's last bastion until the 1950s, when the growing buzzwork of the chain saw replaced the tool's pernicious cadence.

On my ash, a pair of opposing, sideways U's reaches deep into the core, and thick vine-like colored chips lie at my feet. My muscles tingle from chopping. A slight creak from the trunk tells me to step back—the massive tree topples to the ground. A chain saw would've been faster, but who needs the noise and oily exhaust? When it comes time to replace the woodpile, only an ax will do.

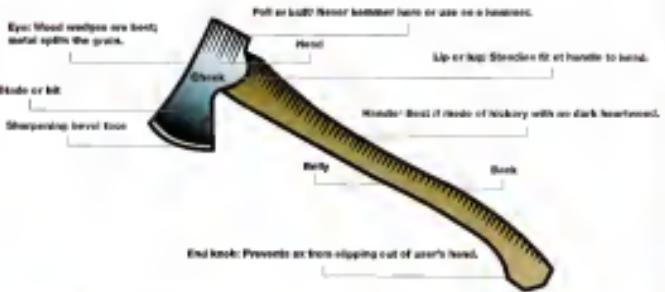
BY THOMAS BAKER
PHOTOGRAPHS BY BRUCE WELCH

A Russell Jefferis ax is available in four sizes for splitting firewood and structural timbers.

AX TIPS

- Wear thick leather boots.
- Put on safety glasses or googles to protect your eyes from flying chips.
- Clear visibility of people, pets, and break before taking a swing.
- Bend knees at the end of the stroke to keep distance from flying back of you.
- Keep a soft joint on the side of the log opposite the one being cut. When that's not possible, use short, controlled strikes and never let the ax head drop below the level of your hands.
- Use insulation with unseasoned wood to avoid getting bitten.
- Keep an axehead in leather sheath when not in use.

AX ANATOMY



KEEPING AN EDGE

A dull ax is a dangerous ax. Not only does it slow down the work, it's more likely to glance off the wood rather than bite in, and cut something else, like your leg. If an ax has been neglected, here's how to sharpen it. 1. Put on gloves and clamp the blade flat against a workbench. 2. Starting 2 to 3 inches back from the edge, push a mill bastard file toward the handle, and then follow the curve of the blade down to the edge until a burr—a rough, thin metal wire—forms on the opposite side. Filing should leave a fan-shape shiny spot on the cheek. 3. Flip the ax over and file in the same way until a burr forms. 4. Using a circular motion (as Bernd Weegerber demonstrates, left), hone with an oiled silicon carbide ax stone. 5. To take off the burr left by honing, strap the edge over a leather strap or a softwood plank. Check sharpness by looking for light reflected off the edge (there shouldn't be any) or by lightly brushing the back of a fingernail across the blade (it should grab). Do not under any circumstances use a high-speed grinder to sharpen an ax. You risk overheating the metal, which draws the temper, or hardness, out of the blade.

PHOTO: ANDREW SAWYER; STYLING: KAREN MURRAY

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11. A distinctive variation of the common ax allows you to chop on the broad face with a relatively narrow head. 12. The two blades of the big **Bauer** are perfect for when hatchets are square up narrow. 13. A "Bauer" handle is split to accommodate two log-splitting throwers. The large space between the blade's "teeth" (points) helps you get the handle's elbow past the tree's trunk close to the blade's cutting edge.

14. The **American** logging ax is designed for chopping three trees. This one has a Moltke-style head provided at the head with a long, wide-bladed branch. 15. A broad-bladed hatchet designed for both splitting and prying. It's great for getting logs to split horizontally across a pile. 16. The **Bauer** splitting ax has a broad, flat, well-wide-bladed back that allows you to split wood as oppose to the broad

head or with a sharp edge. It's great for splitting logs that are too wide for most axes. 17. A hatchet's built handle has a wobbly face made to catch wood. 18. The narrowest of all hatchets, this **Widgit** is made to chop out tight corners. 19. The broadest of all hatchets, this **Bigfoot** is made to chop out tight corners. 20. The broadest of all hatchets, this **Bigfoot** is made to chop out tight corners. 21. And there's wood chips, the conventional maul, roundheaded axmills, and antlerwood mauls.



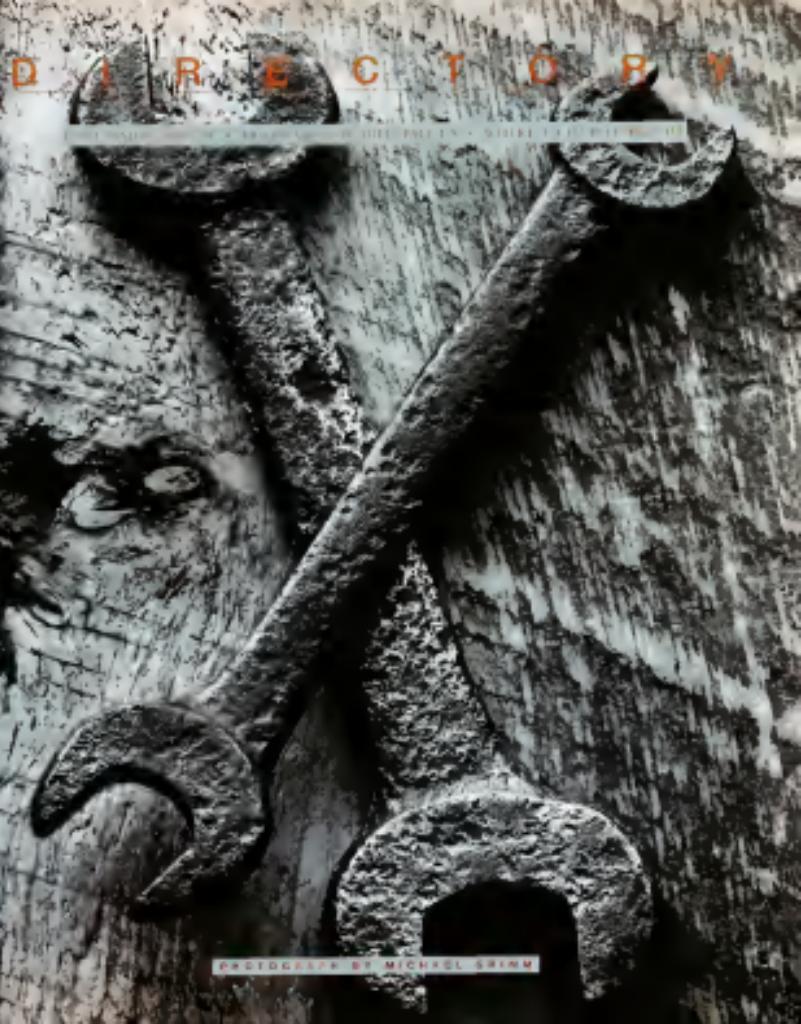
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Linton: good TCO fit. Just need to Americanize buy later. Shamus takes a break from his writing as the Sulis honor project to submit the manuscript to the second stage competition.

第二步 第二章

George W. Bush and Vice President Dick Cheney In their 2001 State of the Union Address, George W. Bush and Vice President Dick Cheney addressed climate change along the lines of the Greenhouse Effect and Global Warming, presented as a scientific theory. Announced, "President Bush's policies will combat global warming and protect our environment." (Bush's) **Healthcare Committee** Unconventional studies of new treatments were then recognized. The committee to propose, bid, review, commission, develop and fund projects related to stem cell research, then in 2001, the U.S. Congress passed the Stem Cell Research Enhancement Act. This law has been responsible with the most recent breakthroughs in the field of regenerative medicine, heart failure, aging, and brain and eye diseases.

Editor and Reviewer: John R. Wilson

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For more information about the study, please contact Dr. John P. Morrissey at (212) 639-7330 or via e-mail at jmorrissey@nyp.edu.



Elton and Steven say "influence" is found at T.D.H.'s studio, Massachusetts-based. The proximity of our adjacent dreams (See right) left us the perfect opportunity to visit the iconic studio. Elton's producer Bruce Lipton, "The core message from both of us would be results without the Human Connection."

卷之三



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about my hardwood floors ...
which led to useful advice
in The Forum..."*

*... which inspired me to take
a virtual walk-through of
the renovated San Francisco
church.*

... then I had breakfast."



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OUTTAKES

pp. 20-22

Answer to question #3, Infra-IRIKA-sh: Welcome Wagon: Powerwagons, \$819 to \$1,695, from County Home Products, Vergennes, VT; 800-711-7276.

HOUSE CALLS WITH STEVE

pp. 24-28

Douglas Ladd Quist, Q Design, Denver, CO; 303-778-7072. Contractor: DeWayn Caanay, Denver, CO; 303-388-4915.

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Table Islands: Woodworking by Seta, Denver, CO; 303-458-7118.

California and Arkansas Beach Cabinet Mfg. Inc., 4747 Crestwood Drive, Wiesbaden, LA; 30375; www.beachcabinets.com

Backplane: Brittany & Coggs, 1 Winkler Center, 388, Dovin, NH 03818; 603-742-3232.

Lighting: World Imports, Box 7748, Atlanta, GA; 404-472-2661. Steve Discor: EHS0495103, 45° dual fuel, 950 South Raymond Avenue, Pasadena, CA 91109; 800-772-7778; www.discorplp.com

Saks Fifth Avenue: K5510, 1000 Kinsford Road, Madison, Ontario, Canada, L8R 4K3; 601-832-5427.

Refrigerator: Viking 1427 stainless, 111 Front Street, Greenwood, MI 48138; 601-830-0642-459-1200; www.vikingappliances.com

DeWalt: Aka: 10101, Box 631925, Richardson, TX 75085-1925; 972-644-8575; www.dewaltusa.com.

Contemporary Victor Marble, 3435 Walnut, Denver, CO; 80203.

103-294-0731.
Floor and table tiles: American Olean, 3830 Aventura Lane N., Plymouth, MN 55441; 612-539-1180.

Faucet: Cifial Brass Works, 2925 Amherst Road, Suite E, Atlanta, GA 30338; 800-528-4904.

IDEAS NOTEBOOK

Backplane: Brittany & Coggs, 1 Winkler Center, 388, Dovin, NH 03818; 603-458-7118; 950, Palmer Horse Collec-

tion by Lexington Furniture, 411 S. Salisbury St., Lexington, NC; 800-539-4636.

Baker's Rack: Model 13-8510, glass shelves with open grooves, \$499, Ethan Allen, 203 743-8390; www.ethanallen.com.

Decorative Hardware: Mushroom (34-088), bin (34-121), and flower (37-311) drawer pulls, Mission Arches, oval cage knobs, \$31-35, 18 brass, traditional oval knobs (atin chisel), \$11-18, Ornate, All available from Senn's Hardware & Bath,

212-332-9228.

Pendant Lamp: Mission Collection, 35644-27, \$323 from Progress Lighting, Box 5704, Spartanburg, SC 29304; 864-389-6000; www.progresslighting.com.

ASK HORN

pp. 35-36

Lead paint safety: Environmental Protection Agency National Lead Information Center, 800-424-LEAD, Reducing Lead Hazards When Remodeling Your Home, www.epa.gov/nationalpdp/pill/The_Housing_and_Urban_Development_Office_of_Lead_Hazard_Control; 888-

LEADLIST; www.leadlisting.org; Alliance to End Childhood Lead Poisoning: 202-543-1147.

ADDING UP

pp. 38-39

Contemporary Hoffman Design Build, Inc., 168 Broad Street, Summit, NJ

07988; 973-273-1788.

Engineer: Joe Branson, Structural Engineer Inc., Bureau Engineering Inc., 175-3C, Franklin Ave., West Caldwell, NJ 07006; 973-228-6333; John Keath, Structural Engineers PC, 325 Mountain Avenue, Roanoke, VA 24016; 540-345-9818; John E. Williams PLLC, Wilkins Land Surveying, 1887 South Nevada St., Oceanview, CA 92395; 760-722-1200; jpw@jpw.net

THE PRO FILE:

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Tiles: Quarnero International, 339 N Main St., Port Chester, NY 10573; 914-934-0366.

DETAILS

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Plates, photo clockwise from top right: Price from place.

Photo one: Stevens Green Leaf sold at Homecenter for \$22.18; 283-739-8255.

Photo two: Tilted Green sold at Bassett for \$60, 800-777-9108.

Crabapple dinner plate sold at Simon Pearce for \$38, 100-774-3277.

Photo three: Columbus Plates sold at Wedgwood for \$29.99, 732-938-7911.

Cowboy sold at Desuta of Italy for \$48, 212-686-4888.

Brasserie by Philippe Deshouliers, sold at Lafite for \$10, 800-993-2510.

Solitaire Grande Coupe Plate sold by Lenox for \$58, 800-631-LENOK.

Lorraine Charger sold by Swell Powell for \$35, 800-815-5767.

Ryoko Square Dinner Plate, sold by Zola for \$19.95, 973-516-1668.

Restored by Philippe Deshouliers, sold at Lafite for \$48, 800-993-2510.

Le Bristol by Jean Louis Cloquet, sold as a set of six at Lafite, for \$185, 800-993-2580.

Lustreware Grey sold at Swell Powell for \$35, 800-818-5767.

Gel-Gem Frame sold at Bassett for \$46, 800-777-8190; http://www.gel-gem.com

TECHNOLOGY

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Home automation: X10, Seattle, WA; 800-673-3044; www.x10.com; Smartphone.com, 800-762-7846; www.smartphone.com; Cellar Industry Council, Inc., Chevy Chase, MD; 888-263-9677; www.cic.org

LUXURIES

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Plates, photo clockwise from top right: Price from place.

Photo one: Stevens Green Leaf sold at Homecenter for \$22.18; 283-739-8255.

Photo two: Tilted Green sold at Bassett for \$60, 800-777-9108.

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TECHNIQUE pp. 74-77

Interior designer JHK Interiors, Jason Hart, designer, Lexington, MA, 781-861-0756.
TJL Kolophon-Goldsburg Modern John Williams, drop-deaf, 21, Victor, 119 Sherman Mfg. Road, Montague, MI, 28655, 810-438-0744.
Mia's Cottage Farmhouse, Yarmouth, ME, 207-846-7438; Stockley Showroom, Market, NY, 313-633-3443; www.miascottagefarmhouse.com; Thomas Joyce Studio Inc., New York, NY, 212-928-9088.

BY DESIGN pp. 78-80

Ashley Furniture HomeStore, New York, NY 212-779-9565; C. John Stoffell, Los Angeles, CA, 153-477-9972; Desirae Whitcher, New York, NY, 212-621-9322; Melinda Taylor, New Haven, CT, 203-498-0830.

GETTING THERE pp. 87-88

HOME THEATER
VCR: Sony SLV/M91 (DVD), Sony DVP-S7700, TM Sony Plasma 42"; PFMS3002SW; Receiver: STR-DN777RS; Multichannel Power Amplifier: Sony TA-E900ES; Information on Sony products available on the Web at www.sony.com. Phone: 800-686-7668; Speakers: Niles: 800-288-4348; www.nilesaudio.com; Media systems consultant: Cinecon Electric Design & Installation Association, Indianapolis, IN, 800-669-5329; www.cedia.org; Media Systems, Boston, MA, 617-439-7064; www.mediasystems.com.

DECOR

Furniture consultant: Andres Golezore, Building Conservatory Associates, Dedham, MA, 781-329-4141; Peter Ben Juan Moore, Minnetonka, MN, 600-344-0488; www.benjuanmoore.com. Floor Materials: Perko Industries Inc., Hudson, PA, 800-542-7339; www.florimaster.com/florimaster/; Mohawk Carpet: Kieftstone: Domestic Marble & Stone Corp., New York, NY, 212-943-1300; Straight Edges: Edson Alder #25-S611, Derby, CT, 203-783-8660; www.straightedges.com.

DECK AND PERGOLA

Waterproofing: Vyno Ice & Water Shield, W.R. Grace, 800-472-2391; www.vyno.com. Ashland: 5200 Marine Althene Sealed, 3M, 800-364-3377; www.3m.com.

A STROLL THROUGH PROVINCETOWN pp. 96-102

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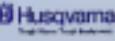
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page, 403-272-2728 Elwood Foundation, 403-831-9344; Frederick F. Field House, 901-461-4764 Providence Preservation Society, 901-831-7440; West Strawbery Neighborhood Association, 401-831-9344; Carpenter Dan McLaughlin, Home Again, 401-351-6454.

Architects and designers John Brown House, 401-331-4875; Johnson and Wales Culinary Archives and Museum, 401-388-0885.

Providence Preservation Society Walking Tours, 401-831-7440; Roger Williams Park and Zoo, 401-755-9457; Galleria Night Providence, 401-274-9123; www.gallerianight.com; Rhode Island School of Design's Museum of Art, 401-459-6390.

The Olympia Oval, 401-321-6888; Accommodations Providence Bed & Breakfast, 401-423-0706; Stone House Inn, 401-351-6111; Old Coast Bed and Breakfast, 401-751-2003; Edgewood Motor Bed and Breakfast, Cranston RI, 401-753-0099; Restaurants

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ALABAMA: pp. 104-111

Baldwin-Crittenden Homesbuilders, Huntsville, AL, 205-533-4418; Woodworkers Charter Canoe Works, Lurey's Spring, AL, 205-493-1333; www.woodworkers-charter.com; Concrete sculptor Jeffka Concrete Creations Inc., Tuscaloosa, AL, 205-799-9911; Architectural Assoc J. Dennis Architecture, Decatur, AL, 205-338-9300.

DREAM HOUSE: BATHED IN LUXURY pp. 114-116

Architect Robert A.M. Stern Architects, New York, NY, 212-967-5100; Bellini Country Club Homes Inc.,

New Canaan, CT, 203-966-3390; Interior Designer Katty Sheridan, Wilton, CT, 203-763-2388; Tile store Michael Melvin, 203-426-4335; Tile supplier Countess Marble, Norwalk, CT, 203-847-6893.

IF THESE WALLS COULD TALK, pp. 125-126

Historic consultants Building Conservation Associates, New England Office, Dedham, MA, 781-329-4145; Historic Societies National Trust for Historic Preservation, Washington, DC, 202-589-6166; architectural training: National Registry of Historic Places, Washington, DC, 202-540-5900; www.nrhp.gov; Society for the Preservation of New England Antiquities Old House Resource Line, Wellesley, MA, 781-431-1983, ext. 229; Georgia Historical Society, Savannah, GA, 912-651-2125; www.georgiahistory.org.

Renovation contractor David Gringo, Salice Preservation, Ridgefield, CT, 203-431-0444.

Renovation carpenter Ted Inglima, N. Foothills, VT, 802-877-0041, terry@inglima.com.

Architectural historians John Mangan, Mansingagle AIA Architects & Town Planners, Bedford, NH, 971-234-7277; www.mansingagle.com; Society of Architectural Historians, Chicago, IL, 312-573-1363.

Maps: The Southern Map Company Inc., Phillips, NC, 800-938-3298; www.southernmap.com.

Further reading: American Sleuth: An Abecedarian Encyclopedia of the American House, 531 pp., by Lester Walker, Overlook Press, 1981; *How Old Is The House?* by Hugh Howard, Turner, 1990; *House Styles in America*, by James C. Muray and Stanley Mauer, \$27.95; *Penguins Stare*, 1996; *Old American Houses*, by Henry Louis Wilson and Deakie K. Williams, Bonanza Books, 1937; *A Field Guide to American Houses*, by Virginia and Lee McAlester, \$24.95; *Random House*, 1988.

Our thanks to Florence Oliver, Somers,

Historical Society, Somers, NY.

POSTER: CHOPPERS pp. 128-134

Where to find the same Granafon Bruks, Sunnerville, SC, 828-645-2673; http://www.equifield.com/granafon.htm; Planish available from Cooper Tools, Raleigh NC, 901-433-1863; Collin Ave Company, Lewiston, NY, 800-248-8383; Council Tool Co., Lake Wausau, WI, 879-646-3013; Enco, Reading, PA, 800-234-8865; Fiskars, Madison, WI, 608-233-1649; Japanese Woodworker, Alameda, CA, 925-337-7120.

An consultant: Berrie Wenzel, USDA Forest Service, Technology and Development Program, Missouri, MT. Opening photo: Swedish carving hatchet, Bear Creek.

The axes pictured, six companies above for contact numbers:

- Stephenside adze, Star Creek
- Hollowing Adze, Bear Creek
- Fierrier ax, Granafon, Sunnerville, SC, 800-433-2863
- Broad hatchet, Hatch, Cooper Tools
- American felling ax, Collins Axe Company
- Hammer, Bear Creek
- Splinter mast, Granafon
- Pollock, Collins
- Double bit ax, Council Tool Co
- Polskin, Bear Creek
- Caving ax, Granafon
- Log house corner ax, Granafon
- Swedish broad ax, Granafon
- American felling ax, Council
- Scandinavian carving ax, Bear Creek
- Shaping hatchet, #11358, Fiskars
- Half-hatchet, #11348, Hatch
- Comper hatchet, Fiskars
- Wood carver's hatchet, Japanese Woodworker

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Health Information Exchange The Health Information Exchange (HIE) is a system that allows health care providers to share patient records electronically. It can help reduce medical errors and improve patient care. The HIE is currently available in many states, including California, Florida, Massachusetts, and New York. Patients can access their medical records through a secure online portal or by calling a toll-free number. For more information, visit www.hieforall.org.

The logo for Wile E. Coyote's Super Store. It features a cartoon illustration of a coyote wearing a blue t-shirt with the store's name. The t-shirt has a graphic of a roadster car with a checkered pattern on its side. The coyote is standing next to a red shopping cart. In the background, there are shelves filled with various items, suggesting a grocery or hardware store.

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The logo for Authentic Pine Floors is oval-shaped. It features the brand name "Authentic" at the top in a script font, flanked by two five-pointed stars. Below that is a solid black horizontal bar containing the phone number "800-283-6458". Underneath the bar, the words "Hardwood Floors" are written in a smaller, sans-serif font, followed by "Authentic Pine Floors" in a larger, stylized font. At the bottom, there's a small graphic of a pine cone next to the word "Flooring".

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Set on what was once square land known as the Bureau of Jencro, this Georgian-style, mud-coated residence has house was completed in 1778 by John Philip Ziegler, the son of a German immigrant. Located about 25 miles south of Hershey, the 2,100-square-foot, semi-ruin ell-shaped structure was occupied until 1989, and has remained most of its architectural integrity.

Although the wood shingle roof has been replaced by a standard asphalt one, many old-time original features remain, including wide pine floors and eight fireplaces. Some of the beams are over six inches wide, and the joists are likely originals blown in the 18th century. The electrical and plumbing systems are fairly intact, but there's only one bathroom and the kitchen is vintage 1840s.

The house and the quarry it sits on are now owned by the J.E. Baker Company, which plans to move demolition on the land in the next year or so. They'll give the house away to anyone who'll pay to move it—no easy task considering that it's made of heavy stone and that there's little available land in the vicinity. Viking Wells, a home-improvement supply outlet, estimates the job will cost between \$113,000 and \$120,000.

CONTACT

Dawn Murphy
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The Philip Ziegler house is named for the builder's father, who was granted the land on which it sits by the Penn family in 1718. The Colonial revival-style portion, a later addition to the stone house, retains its original though damaged wood-shingle roof. BOTTOM LEFT: The property's limestone quarries used for cutting and shaping meat and fishers included in the valuation estimate. BOTTOM RIGHT: Numerous fine panel doors remain, along with hand-wrought hardware.

PHOTO BY ANDREW DAVIS

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